

JOY

The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JANUARY 3 1959

A SUCCESS FROM THE WORD GO!

Haliborange

TABLETS

and there's an
exceptionally attractive
NEW YEAR BONUS OFFER
to start 1959 with a
PROFITABLE BANG!

BONUS 12 doz. bottles of 25
PARCEL **A** **BONUS** 24 bottles of 25
(i.e., 2 free bottles in each dozen)
OUTLAY £15.0.0. **PROFIT £12.0.0.**

BONUS 8 doz. bottles of 25,
1 doz. bottles of 100
PARCEL **B** **BONUS** 16 bottles of 25, 2 bottles of 100
(i.e., 2 free bottles in each dozen)
OUTLAY £13.16.8. **PROFIT £11.1.4.**

BONUS 4 doz. bottles of 25, 2 doz. bottles of 100
PARCEL **C** **BONUS** 8 bottles of 25, 4 bottles of 100
(i.e., 2 free bottles in each dozen)
OUTLAY £12.13.4 **PROFIT £10.2.8.**

BONUS 3 doz. bottles of 100
PARCEL **D** **BONUS** 6 bottles of 100
(i.e., 2 free bottles in each dozen)
OUTLAY £11.10.0. **PROFIT £9.4.0.**

ORDER TODAY

Any number of Bonus parcels
can be ordered

**This offer ends on
January 31st, 1959**

ALLEN & HANBURY'S LTD., LONDON, E.2.

New manufacturing technique brings
significant increase*
in initial acid adsorption



INTRODUCING

DROXALIN GEL

Rapid adsorption of gastric hydrochloric acid is accepted as the most effective method of obtaining relief in peptic ulcer pain.

- * In two minutes a single teaspoonful (3.5 mls.) of DROXALIN GEL will neutralise 50 mls. of N/10 HCl. This is several times the speed of acid adsorbents prepared by usual methods.

Using the well established Droxalin formulation a new and exclusive manufacturing technique has produced in DROXALIN GEL an antacid possessing this significant increase in initial acid adsorption. The advantages of quicker acting DROXALIN GEL in peptic ulcer therapy and hyperacidity will be readily recognised. The palatability of Droxalin Tablets is achieved.

DROXALIN *Gel*

ACID ADSORBENT

Droxalin palatability in liquid form

| ACTIVE INGREDIENTS | DOSAGE | PACKS AND PRICE |
|---|---|--|
| Each teaspoonful (3.5 mls.) contains 60 grains Aluminium Hydroxide Gel B.P. (equivalent to 5 grains Dried Aluminium Hydroxide Gel B.P.) and 5 grains Magnesium Trisilicate B.P. | One or two teaspoonfuls one half-hour after meals. Repeat as necessary. | DROXALIN GEL is available in 8 oz. and 60 oz. bottles. Prescribable on E.C.10. Basic N.H.S. cost. 1/10d per 6oz. bottle. |

CLINICAL TRIAL SAMPLES ON REQUEST TO:— SCOTT & TURNER LTD. NEWCASTLE UPON TYNE

HIGHEST TOLERATION
PRACTICAL
DOSAGE COMBINATIONS
SATISFACTORY
CLINICAL RESPONSE

Physicians therefore specify

Calcium B-PAS WANDER

and

B-Pasinah WANDER

(calcium B-PAS Wander plus isoniazid)

*in the domiciliary
Chemotherapy of Tuberculosis*

B-PAS (Wander), 4-benzoylaminoc-2-hydroxybenzoic acid, first introduced by our Research Laboratories in 1948, is the drug of choice in regimens comprising PAS in concurrent therapy.

In the form of its calcium salt, it induces only minimal side-effects as compared with sodium PAS, and because of its high acceptability guarantees as far as possible that domiciliary patients take their medication.

CALCIUM B-PAS (Wander)

Powders: Tins of 150 and 400 x 3.5g. envelopes
Cachets: " 80 and 400 x 1.0g.

Also available: Sodium B-PAS (Wander)
in 1.5g. Cachets.



'B-PASINAH' (B-PAS plus Isoniazid)

| | |
|-----------|------------------------------|
| Powders: | Calcium B-PAS (Wander) 3.5g. |
| Isoniazid | 87.5mg. |
| | Tins of 150 and 400 |
| Cachets: | Calcium B-PAS (Wander) 1g. |
| Isoniazid | 25mg. |
| | Tins of 100 and 500 |

Price details of all forms of PAS from the Medical Dept.

All Wander tuberculostatic products are available from usual wholesalers or direct from

A. WANDER LIMITED, 42 UPPER GROSVENOR ST., GROSVENOR SQ., LONDON W.1

RE-SALE PRICE MAINTENANCE

In the High Court, on the 18th December 1958,

BEECHAM FOODS LTD.

manufacturers of

SUN ORANGE QUOSH

brought an action against

LEWIS TAYLOR LTD.

35/39 Exmouth Market, E.C.1.

and branches

to enforce an agreement that the defendants would not sell SUN ORANGE QUOSH and the other products of Beecham Foods Ltd. except at the fixed retail prices set out in the relevant price lists.

The Court granted a perpetual injunction with costs against the defendants.

Companies of the Beecham Group have taken fourteen successful actions to protect the prices at which their goods may be sold to the public. It is their policy to ensure fair and reasonable profit margins to the trade and to give the public a continuing assurance of high quality and good service at fair prices.

AMIDOPYRINE 'RHODIA' BRAND

PHENAZONE 'RHODIA' BRAND

PIPERAZINE 'RHODIA' BRAND

QUININE SALTS

‘AMSTERDAM’ & ‘MAARSSSEN’ BRAND

ZINC OXIDE B.P. 'BARKING'

SPOT DELIVERY & ON CONTRACT

DISTRIBUTORS:

R. W. GREEFF & CO., LTD.

HEAD OFFICE

GARRARD HOUSE - 31/45, GRESHAM STREET, LONDON, E.C.2
MONarch 1066 (12 Lines) Wires: Greeff, Cent. London

Telex 2-2590

and at

THE ROYAL EXCHANGE, MANCHESTER
Blackfriars 9407-8 Wires: Greeff, Manchester

SCOTT & BOWNE

LIMITED

announce the following

PRICE CHANGES

effective from the

1st JANUARY 1959

PACQUINS HAND CREAM

| | | |
|-----------------|-----|-----|
| 1 oz. tubes now | - - | 1/9 |
| 2 oz. tubes now | - - | 2/9 |

THE J. B. WILLIAMS SHAVING PREPARATIONS

| | |
|-------------------------|-----|
| LUXURY Shaving Cream | 2/6 |
| ESQUIRE Brushless Shave | 2/6 |

MUM DEODORANTS

| | | |
|------------|-----|-----|
| MUM Lotion | - - | 3/- |
|------------|-----|-----|

NEW

OXYDENT Denture Cleanser in Polythene Bottles

| | | |
|------------|-----|-----|
| Small size | - - | 1/9 |
| Large size | - - | 3/3 |

SCOTT & BOWNE LTD

50 UPPER BROOK STREET, LONDON, W.1

OBtainable from your
usual sundriesman
Your customers get dirty hands
— they want you to sell

Swarfega HAND CLEANSER



Removes grease, oil,
paint, tar, dyes and
rubber compounds.
Non-abrasive, antiseptic
Price:

Standard size 1/6d.
Large economy
size 4/8d.



Display this 1 dozen
pack and benefit from powerful advertising.

As advertised in: Practical Motorist, Good Motoring, Car Mechanics, The Motor, The Autocar, Motor Cycle, Motor Cycling, Top Gear, C.S.M.A. Gazette, Practical Householder, Do-it-Yourself, Homemaker.

DEB CHEMICAL PROPRIETARIES LTD. Belper, Derbyshire.

'BREKNA' IODISED SALTS

(for the Relief of Rheumatism, etc.)

Retail price 2/6 a Jar. Wholesale price 24/- doz.
(discount to wholesalers 15%)

★ PRE-NATIONAL ADVERTISING OFFER :

Minimum Order 36 Jars charged as 30 Jars—
Carriage Paid (Value 15/- Extra Profit)

Main Distributors :
Messrs. I. ROWLAND JAMES LTD.
Wholesale Chemists. SWANSEA and CARDIFF
Proprietors: H. P. JENKINS PENYGROES, LLANELLY, CARMNS

BURROUGHS

S.Y.R.

DOUBLY
RECTIFIED

JAMES BURROUGHS LTD.,
LICALE DISTILLERY, LONDON S.E.11

CHEMIST'S DICTIONARY OF MEDICAL TERMS 7th Edition

Prepared primarily for pharmacists, the Dictionary is indispensable also for pharmaceutical manufacturers, advertising agents concerned with the marketing of medicinal products and indeed all who have to find their way around among the multifarious medicinal compounds of modern times.

Order direct from: PRICE 17/6, Postage 9d.

THE CHEMIST & DRUGGIST
28 ESSEX STREET, STRAND, LONDON, W.C.2

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(continued overleaf)

As sensible as umbrellas



For the thousands who regard vitamin supplementation as sensible protection against the harshness of winter, Radio-Malt and Multivite provide the complete answer.

'MULTIVITE' TRADE MARK

Popular choice for vitamin supplementation. Vitamins A, B, C and D in full potency in a palatable chocolate coating.

| | Trade | Retail |
|--------------|-------|--------|
| 50 pellets | 2/4 | 3/6 |
| 500 pellets | 14/6 | 21/9 |
| 1000 pellets | 27/6 | — |

Special winter bonus terms for bulk orders.



'RADIO-MALT' TRADE MARK

For radiant health. Delicious, toffee-flavoured, so popular with infants and young people.

| | Trade | Retail |
|-----------|-------|--------|
| 1lb. jars | 2/5½ | 3/6 |
| 2lb. jars | 4/4 | 6/3 |

Special winter bonus terms for bulk orders.



The British Drug Houses Ltd., London, N.1



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DRIVER'S of LEE GREEN LTD

1959

Keeping Faith

with the pharmacist and maintaining the best possible service for the supply of ethical and general proprietaries to

CHEMISTS ONLY***Wholesale Chemists' Distributors***

27, ELTHAM ROAD, LONDON, S.E.12 · · · Tel.: LEE Green 7471 (10 lines)

Elegance with Efficiency



New effervescent 'REDOXON'

With 'Redoxon' effervescent tablets 1G. a glass of water can be transformed into a pleasing effervescent drink containing a massive dose of Vitamin C. Such doses are indicated in the

treatment of the *first manifestations of the common cold* and other febrile conditions in which the reserves of Vitamin C are rapidly depleted.

'Redoxon' effervescent tablets 1G. are supplied in tins of 10.

ROCHE PRODUCTS LIMITED, 15 MANCHESTER SQUARE, LONDON, W.1

The NEW VITAMIN STORY

that every woman is reading

The new theme "She didn't just slim—she took DIETIN too" is supported by a special reduced price offer to help you with your sampling and to direct repeat sales to your shop. This story is also being enthusiastically taken up by women editors in their magazines.

POWERFUL ADVERTISING

It is a sound and ethical idea backed by some solid common sense which every woman will appreciate. The fifteen million women readers of "Woman" and "Woman's Own", the two magazines with the largest circulations in Great Britain will regularly see the compelling new Dietin story.



MULTI-VITAMIN CAPSULES

RETAIL PRICE
15 DAYS TREATMENT

5/-

30 DAYS
TREATMENT

9/-

- safe
- tasteless

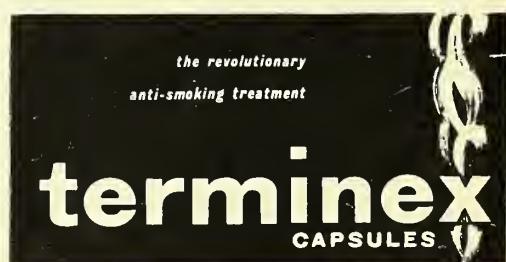


A PHARMACEUTICAL ANTI-SMOKING TREATMENT

Safe, tasteless TERMINEX capsules are packed in bottles of 50, which constitute the full treatment lasting four weeks. The capsules have been designed for easy swallowing with a little water and are packed in a handy-sized container.

The pack retails at 19/6, the price to the chemist being 130/- per dozen, plus 39/- P. Tax. Each half-dozen units are packed in a smart display outer.

Tests prove the demand for TERMINEX. In a recent test campaign, where less than £100 was spent on promotion, public demand was so heavy that one chemist had to send FIVE REPEAT ORDERS IN TWO WEEKS.



2

UNIQUE PRODUCTS

For full information and overseas enquiries write to:—

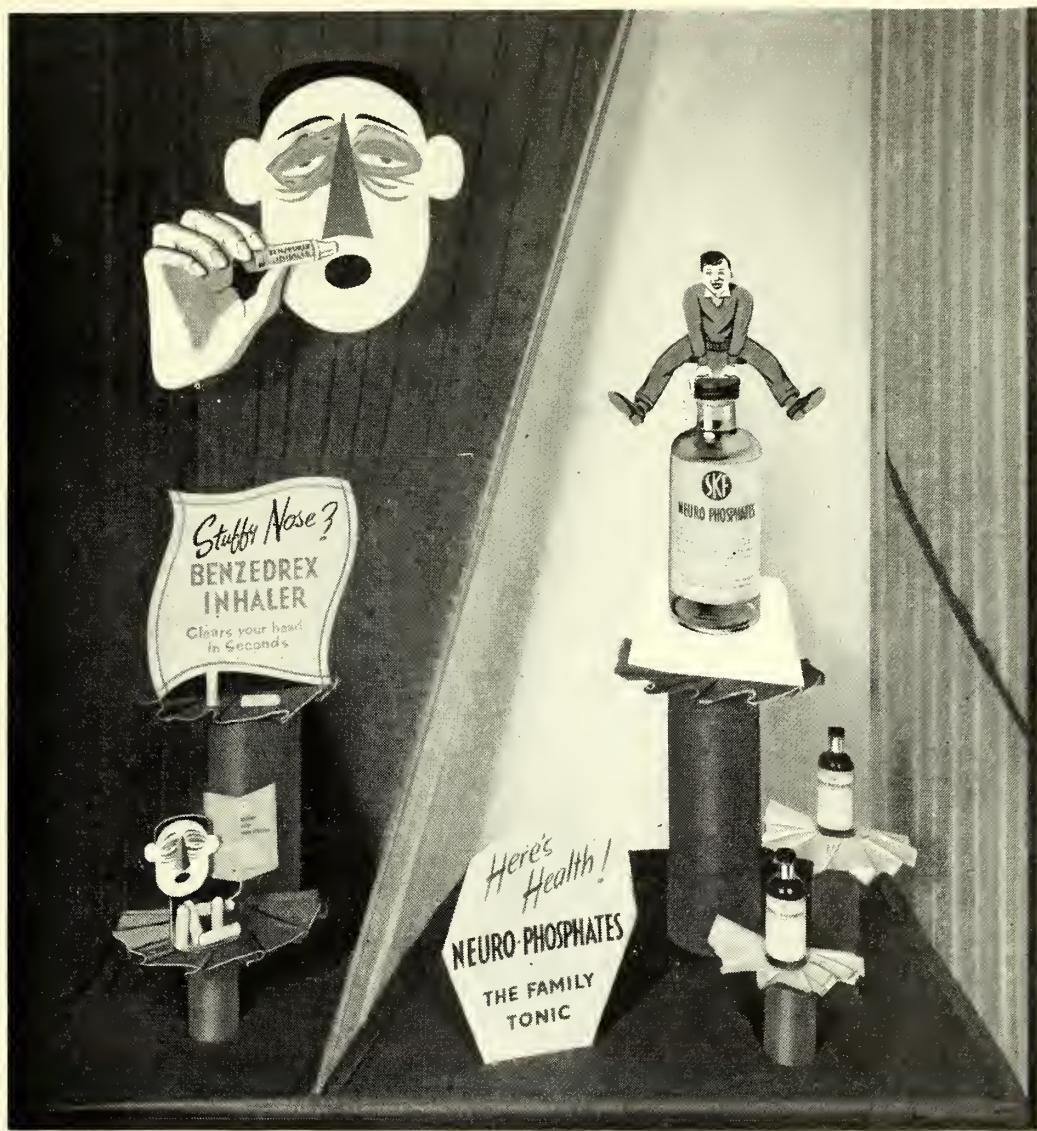
TREVENA LTD.

(Distributors to the Pharmaceutical Profession)

Murray House, Barbican, London, E.C.1.

Telephone: MONarch 8877 (15 lines).

TIB.30.



Now is the busiest time of year for sales of 'Benzedrex' Inhaler and 'Neuro Phosphates'. This year we are redoubling our efforts to help you make the highest sales ever. This window display has been set up in many chemists' shops and is already stimulating sales. Counter display material is available to you at all times. If you want a display in your window, tell our representative or contact our office.

BENZEDREX INHALER the supreme reliever of nasal congestion

NEURO PHOSPHATES the tonic for appetite and vigour



Smith Kline & French Laboratories Ltd, Coldharbour Lane, London SE5
Telephone BR1xton 7722



FREE DISPLAYS

These unique displays—either one large "Major" or two "Minor" as you wish, are given FREE with every 4 doz. "Ultraglaze" assortment, which is supplied in special easy-view dispenser pack.

"ULTRAGLAZE" LENSES

A facsimile National Physical Laboratory lens report is enclosed with every pair of "Ultraglaze" sunglasses together with free lens cleaning cloth.

Barnet sunglasses on show at Harrogate
Stand No. 559 Grand Hotel

1959's OUTSTANDING NEW SUNSTYLES

BARNET *Ultraglaze*

**The inexpensive lightweights
with GLASS lenses**

A new conception in modestly priced sunglasses Barnet "Ultraglaze" has everything—eight new fashion-right styles—superb lightweight frames—plus Crookes glass lenses—guaranteed by Barnet to conform to the Laboratory test report enclosed with each pair. With wonderful displays and the full backing of powerful TV and Press advertising, Barnet "Ultraglaze" sunglasses truly have everything to make them your top sellers this summer. Outstanding too for value, "Ultraglaze" retail from 12/6d. to 15/6d. at full return plus extra bonus profits.



**Heavy TV and PRESS advertising is already
booked for high impact to sell "Ultraglaze"
from your counter.**

BONUS PROFITS

With every 4 dozen "ULTRAGLAZE" assortment ordered from your wholesaler before February 1st, you get 4 FREE models worth on sale £2.17.0d. **EXTRA PROFIT.**

"Ultraglaze" 4 dozen unit provides assortment of 6 each of the eight styles.

4 dozen costs £23.8.0d.
Sells with bonus for .. £37.19.0d.

ORDER FROM YOUR WHOLESALER NOW



Made in England by (Wholesale only)

E. R. HOLLOWAY LIMITED

BESSEMER ROAD, WELWYN GARDEN CITY, HERTS.
PHONE: WELWYN GARDEN 4444.

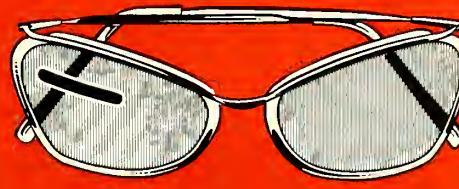
HG.I.



'FIJI'



'BERMUDA'



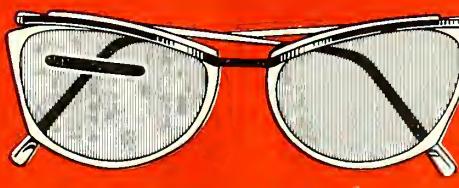
'TAHITI'



'BALI'



'MIAMI'



'BAHAMA'



'SAMOA'

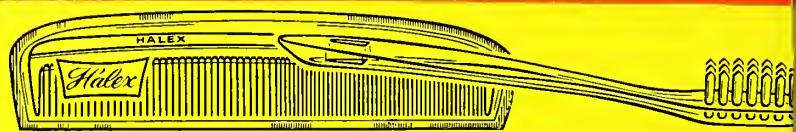


'TONGA'

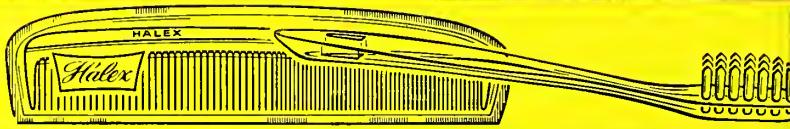
HALEX

Best-ever

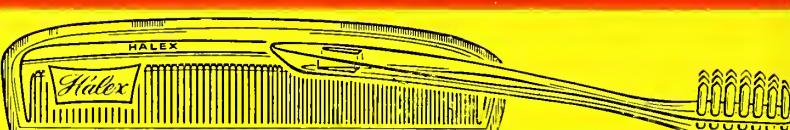
Complete freedom
of choice



Bonus up to 15
to the dozen



New free dispensers



Extra 5% discount
on bulk orders

Toothbrush and Comb Bonus

Now for the details

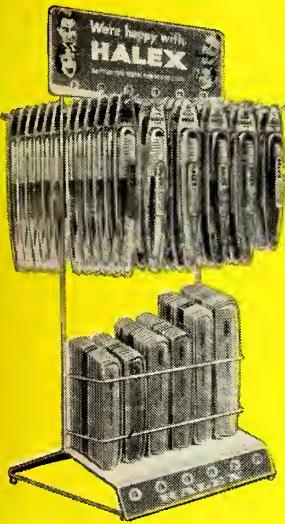
- 1 Halex 'Best-ever' Bonus Offer lasts from January 1st to March 31st.
- 2 Toothbrushes: 15 to dozen on orders of 1 gross
14 " " " " 6 doz.
13 " " " " 3 doz.
- 3 Combs: 13 to dozen on orders of 3 dozen and over.
- 4 An extra 5% discount on all combined orders for 1 gross of toothbrushes and 1 gross of combs.

FREE Counter Service Units

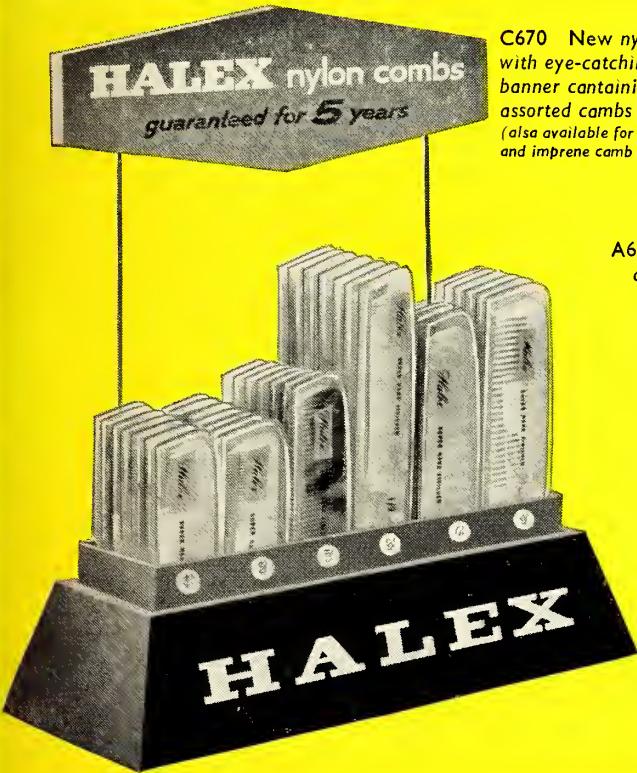
There are 17 service units to choose from for combs and toothbrushes. Many are newly designed, all are gaily colourful, and all are effective sales boosters. They're yours free of charge for the asking.

Well-kept and well-priced

All Halex combs and toothbrushes are individually packed in hygienic containers — and individually priced for quick and easy sales.

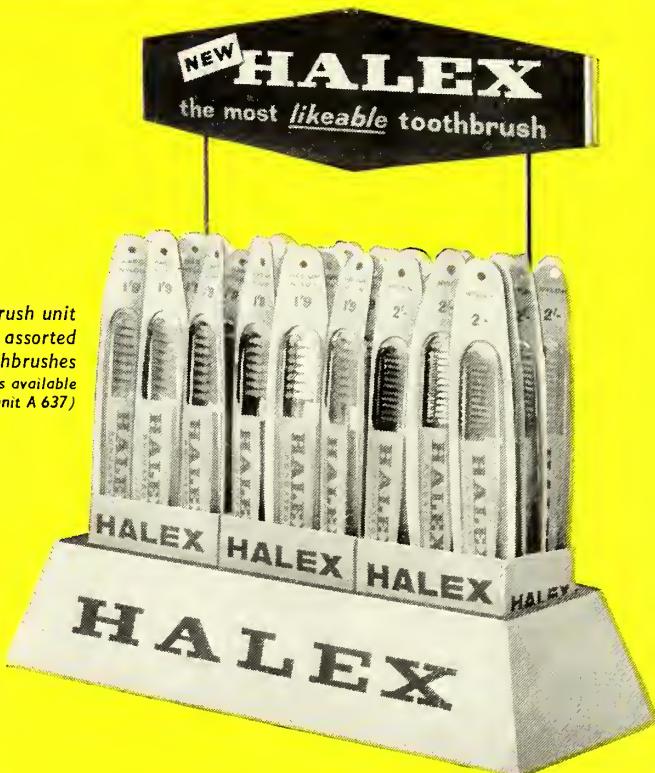


A638 Combined toothbrush and comb unit containing 6 dozen assorted toothbrushes and 6 dozen combs



C670 New nylon comb unit with eye-catching plastic banner containing 6 dozen combs
(also available for acetate and imprene comb displays)

A636 New toothbrush unit containing 3 dozen assorted nylon toothbrushes
(bristle toothbrushes available with unit A 637)



C671 Attractive wire dispenser containing 4 dozen nylon combs
(also available for acetate and imprene comb displays)

NEW **HALEX**
the most likeable toothbrush

Your usual supplier is ready to deliver your bonus order with free counter service units now.

There's something
in the air!

IT'S THE FRAGRANCE OF

HOUBIGANT

famous French perfumes making a welcome
return to this country

ABBEY PARFUMERIE CO. LTD.

is proud to announce its appointment
as Sole Distributor to selected stockists
in the U.K. and Eire

for the re-introduction of the outstanding
HOUBIGANT range, including

SUSTAINED
ADVERTISING SUPPORT!
Spring campaign in the
leading Women's Magazines!

“Quelques fleurs”

“Chantilly”

“Flatterie”

7-9 OXFORD CIRCUS AVENUE, LONDON • W•1

IF YOU ARE LOOKING FOR A TABLET MANUFACTURER TO HANDLE YOUR PRODUCT
BE IT LARGE OR SMALL, IN THOUSANDS OR MILLIONS, WHY NOT

CONTACT ONE OF THE FOREMOST MAKERS WHO HAVE TAKEN PRIDE IN

MANUFACTURING TABLETS & PILLS FOR MANY YEARS

RICHARD DANIEL & SON, LTD. DERBY

Write us at Mansfield Road or ring Derby 40671 (Ten lines)

Start your own
Scentinel Hygiene Dept
It MAKES Sales



This striking display stand is making regular, profitable sales of Scentinel products all over the country. Scentinel products are widely and CONTINUOUSLY advertised. Send in coupon for details of free offer.

Some of the "New Hygiene" winners.

"QUIFF" Fragrant air freshener spray. Aerosol 5/6, Squeeze bottle 3/6, Refills 1/6.

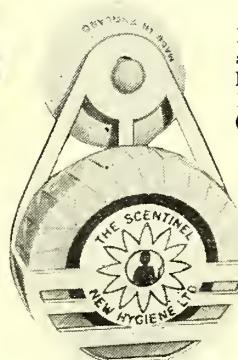
"WHAM" Fragrant fly spray and insecticide. Aerosol 5/6, Squeeze bottle 3/6, Refills 1/6.

"SWISH" Toilet bowl cleanser. Big seller at 1/6 complete. Refills 9d.

"MIKE" Air freshener in plastic holder. Complete 2/9, Refills 9d. and 1/3.

NEW HYGIENE LTD., 266-268 HOLLOWAY ROAD, LONDON, N.7
Telephone: NORth 5041-2-3

—and here's the
**Scentinel Sensation
of the Season**



The "MINOR"
Fragrant chemical block in attractive unbreakable holder, with suction grip. 1/6 complete. Refills 9d. (will fit any small container).



PLEASE SEND DETAILS OF YOUR
DISPLAY STAND OFFER

NAME

ADDRESS

Telegrams: AIROGENA-HOLWAY

Introducing

MEZURAN

TRADE MARK

for urinary tract infections

Mezuran is a combination of 'S-mez'
— the well-known I.C.I. sulphonamide—
and an effective urinary analgesic.

- 1** controls infection
- 2** provides effective relief from pain and reduces frequency
- 3** safe in use
- 4** free from risk of renal blockage

'Mezuran' is specially designed for the treatment and prophylaxis of those infections of the urinary tract that are susceptible to sulphonamide therapy.

Prompt and specific action is provided in one convenient dosage form.

Each tablet contains: 'S-Mez' Sulphadimidine B.P. (0.5 gramme), the well-known I.C.I. sulphonamide; and phenylazo-diaminopyridine hydrochloride (0.05 gramme), an effective urinary analgesic.

'Mezuran' tablets are issued in packs of 25. A dispensing pack of 500 Tablets is also available.

Mezuran TABLETS

TRADE MARK

Literature and further information available on request.



IMPERIAL CHEMICAL INDUSTRIES LIMITED Pharmaceuticals Division Wilmslow Cheshire

Ph.876/T

13 to the dozen

Starting 29th December, 1958! For every order of six dozen assorted Yardley Talc (or multiples thereof—i.e. 12 dozen, 24 dozen, etc.) Yardley will send 13 tins to the dozen. The extra tin is always Yardley Lavender Talc because that's *everybody's* favourite. And there's a striking free showcard with every order, too.

Big bonus offer!

- 7208 Lavender
- 1108 Red Roses
- 1808 Freesia
- 1908 April Violets



YARDLEY



You can sell more
'Marzine'
TRADE MARK
in 1959

Last summer, in spite of appalling weather conditions for travel and holidays, chemists sold 32% more 'Marzine'.

This season you can do even better! **WHY?**



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

because

'Marzine' is the quickest-acting travel sickness remedy.

'Marzine' is safe for children.

'Marzine' is widely recommended by users.

and because...

'Marzine' is powerfully and consistently advertised.

'Marzine' advertisements will soon be appearing on all travel features in leading National Daily and Sunday Newspapers and popular Magazines, continuing right through January, February and March.

'Marzine' will again be intensively advertised during the holiday season.

And here to boost your PROFITS still more are the generous Bonus Terms for 1959

**14 to the dozen
on orders of
one gross 'Marzine'**

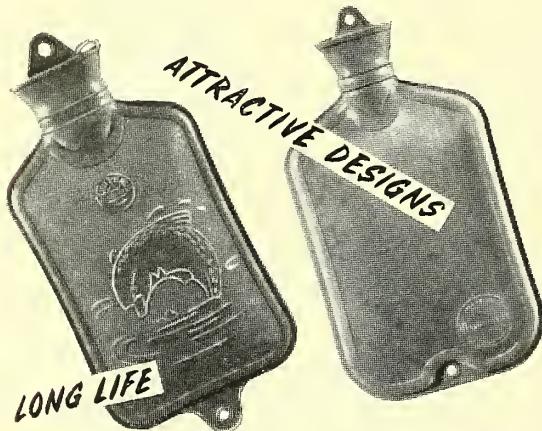
TRADE MARK
placed before 28th February 1959

Delivery NOW-payment in AUGUST

Order Now!

Here's Sales Appeal at Fast Selling Prices . . .

Stock now, for the busiest time of the year



*in fact . . .
Full Size Value
for Everybody*



Telephone your wholesaler
to-day for details of our
complete range

CANNON Rubber Products

THE CANNON RUBBER MANUFACTURERS LTD., Cannon Works, Ashley Rd., Tottenham, London, N.17



It's crystal clear . . .

The more they SEE, the more they BUY



**£12
COMPLETE**

The beauty of a Martin glass display case is that it shows merchandise of every description to your customers' best advantage. Each individual case, with its gleaming chrome fittings, is tested and guaranteed before delivery. Choose a vertical or sloping showcase and build better business from the moment it is installed.

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D' Scholl's FOOT AIDS REVISED PRICES

Revised prices of Dr. Scholl's Foot AIDS are effective as from 1st January, 1959. Copies of our new Price List have been sent to all our customers. Further copies will gladly be sent on request. For quick reference, the following abridged summary of lines subject to change shows new trade and retail prices. Full retail percentage margins have been retained on these profitable, quick-selling Dr. Scholl's AIDS to Foot Comfort.

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| | | TRADE-DOZEN | P. TAX | RETAIL |
|----------------------------------|---------|-------------|--------|--------|
| Dr. Scholl's ZINO PADS | Wallets | 8/- | 2/5 | 1/3 |
| Dr. Scholl's " " | Packets | 14/- | 4/3 | 2/3 |
| Dr. Scholl's TARSO PADS | | 8/- | — | 1/- |
| Dr. Scholl's FELT PADS | | 8/- | — | 1/- |
| Dr. Scholl's KUROTEX PADS | | 9/- | — | 1/3 |

CHIROPODY PADDING MATERIALS

| | | | | |
|---------------------------------------|---------------|------|---|-----|
| Dr. Scholl's ADHESIVE FOAM | Standard Pkt. | 12/- | — | 1/6 |
| Dr. Scholl's ADHESIVE MOLEFOAM | Large Pkt. | 20/- | — | 2/6 |
| Dr. Scholl's CHIROPODY FELT | | 12/- | — | 1/6 |
| Dr. Scholl's ANIMAL WOOL | | 8/- | — | 1/- |

PREPARATIONS

| | | | | |
|--|---------------|------|------|-----|
| Dr. Scholl's BATH SALTS | Standard Pkt. | 10/6 | 3/2 | 1/8 |
| Dr. Scholl's " " | Large Pkt. | 21/- | 6/4 | 3/3 |
| Dr. Scholl's BROMIDROSIL POWDER | | 24/- | 7/2 | 3/9 |
| Dr. Scholl's BUNION LOTION | | 21/- | 6/4 | 3/3 |
| Dr. Scholl's CALLOUS SALVE | | 21/- | 6/4 | 3/3 |
| Dr. Scholl's CORN SALVE | | 21/- | 6/4 | 3/3 |
| Dr. Scholl's CHILBLAIN LOTION | | 21/- | 6/4 | 3/3 |
| Dr. Scholl's FOOT BALM | Standard Jar | 21/- | 6/4 | 3/3 |
| Dr. Scholl's " " | Large Jar | 29/- | 8/11 | 4/6 |
| Dr. Scholl's FOOT CREAM | | 24/- | 7/2 | 3/9 |
| Dr. Scholl's FOOT POWDER | Standard Tin | 24/- | 7/2 | 3/9 |
| Dr. Scholl's " " | Large Tin | 29/- | 8/11 | 4/6 |
| Dr. Scholl's ONIXOL | | 21/- | 6/4 | 3/3 |
| Dr. Scholl's "Two-Drop" CORN REMEDY | | 21/- | 6/4 | 3/3 |
| Dr. Scholl's WENAL OINTMENT | | 21/- | 6/4 | 3/3 |
| Dr. Scholl's UNG-ODINE | | 21/- | 6/4 | 3/3 |

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| | | | |
|-----------------------------------|------|---|-----|
| Dr. Scholl's BUNION SHIELD | 34/- | — | 4/3 |
|-----------------------------------|------|---|-----|

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Dr. Scholl's Foot Eazer, Dr. Scholl's Korrektos, Dr. Scholl's Tri-Spring, Dr. Scholl's Tru-Span, Dr. Scholl's Anterior Metatarsal, Dr. Scholl's Surgical Arch Supports... full details of new prices are included in our new price list.

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in a class by itself***

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'DECADRON' introduces an important change in steroid therapy, since therapeutic need—not side-effects—now becomes the predominant factor.

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DECADRON

(Dexamethasone)

16alpha-methyl-9alpha-fluoro-prednisolone



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Trade prices: 30's, 24/0d, 100's, 76/0d. (exempt P.T.)

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worth-while profit
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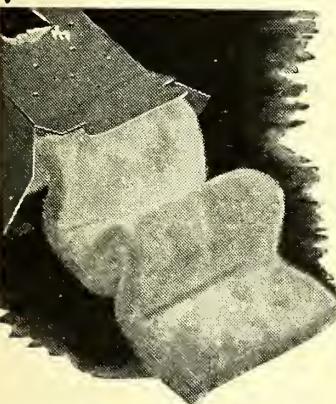
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at a time!*

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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and
all sections of the drug, pharmaceutical and
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland*

Volume 171

January 3, 1959

No. 4115

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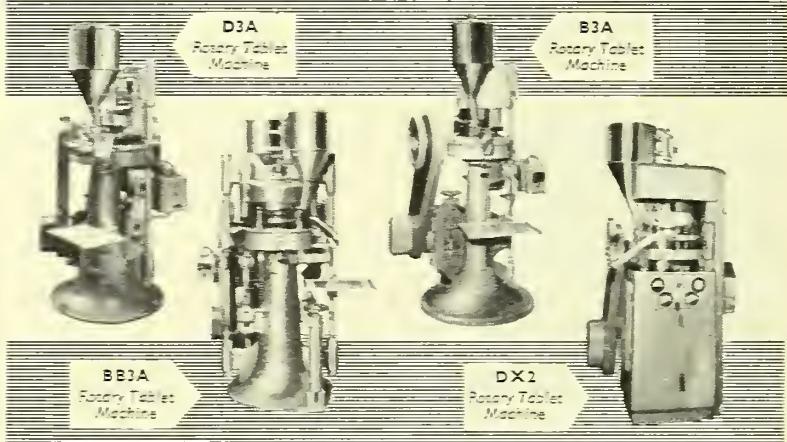
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| D3A Machine | 1/8 dia. | 496 |
| D3RY Machine | 1/8 dia. | 604 |
| DX1 Machine | 1/8 dia. | 520 |
| 13-punch | 1/8 dia. | 640 |
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The CHEMIST AND DRUGGIST

Volume 171

JANUARY 3, 1959

No. 4115

Purchase Tax Returns, 1957-8

DRUGS AND MEDICINES YIELD MORE

THE total purchase tax yield in the financial year 1957-58 was £494.2 millions, an increase of £36.4 millions above the previous year which was a record.

The amount of purchase tax obtained from drugs and medicines is estimated at £12.1 millions (against £9.4 millions) and that from perfumery, cosmetics and toilet preparations £32.8 millions (£30.3 millions), while cameras and photographic goods are estimated to have yielded £5.3 millions (£4.7 millions). Those statistics are given in the forty-ninth report of the Commissioners of Customs and Excise (H.M. Stationery Office, price 9s. 6d.). The report also shows that the yield of duty from saccharin amounted to £1.4 millions, £200,000 more than in 1956-57. About 230,000 proof gall. of ethyl alcohol were exported in medicinal preparations (against 407,000) and 19.3 (19.6) million proof gall. were distributed for methylation.

Currency Changes

PARTIAL CONVERTIBILITY FOR STERLING

AS part of a concerted relaxation of European currency policies, the United Kingdom Treasury on December 29, 1958, lifted all restrictions on the free transfer of current account sterling held by people living outside the sterling area. From that date there is to be only one form of externally-held current account sterling, freely convertible into gold or dollars at the official rate of exchange, \$2.78-\$2.82 to £1 sterling. Permission, however, is still needed to move capital outside the sterling area. While the position of sterling area residents is not immediately affected, the President of the Board of Trade has already suggested that dollar import controls, which were relaxed a few months ago will be further relaxed during 1959. Ten member countries of the Organisation for European Economic Co-operation have now officially notified the Organisation that they have made their currencies convertible and requested the winding-up of the European Payments Union. Its place will be taken by the European Monetary Agreement negotiated in mid-1955. On the day previous to the sterling announcement the French Government devalued the franc by 17½ per cent. and gave details of other measures of monetary reform. It was also announced that 90 per cent. of France's foreign trade with O.E.E.C. countries was to be freed of quota restrictions.

Success in the Future

A RETAIL MANAGEMENT CONFERENCE

THE theme of the 1959 retail management conference of the British Institute of Management, which is being held at Harrogate, March 10-12, is "The Next Ten Years in Retailing." Delegates are to consider the changes retail management should be making, or at least considering, now in order to survive and succeed in the future. All types of retail outlets are being considered, and the delegates to the conference are retail managers and executives from all types of business. Among the subjects being discussed are how to reduce labour costs (the use of part-time workers and the introduction of automation); changes resulting from the disappearance of retail price maintenance; and the banding together of individual retailers in "voluntary chains." The speaker on the last subject is from the Continent, where the voluntary formation by individual retailers of branch-type stores is found in all trades. Another paper considers

the physical layout of shops and a session is being set aside for films on retailing and other forms of selling.

A New Lending Library

FOR SCIENCE AND TECHNOLOGY

THE Department of Scientific and Industrial Research is taking over part of the former Royal Ordnance factory at Thorp Arch, near Boston Spa, Yorks, for the use of the new national lending library for science and technology. It is hoped that the library will begin operating at Thorp Arch in 1961 and become fully operational during the following year. Existing large single-story buildings are being converted into offices and book-stores, and the site provides adequate room for expansion. The new library—the nucleus of which already exists in the D.S.I.R. lending library unit now at Chester Terrace, Regents Park, London—is to cover all subjects in science and technology, except for some fields of medicine. It takes over the responsibility for the lending service now provided by the Science Museum library, which in future is to concentrate on serving the needs of the enlarged Imperial College of Science and Technology. It is also taking over some of the literature now held by the Science Museum library. The new library is to make its unique collection available to research, industrial, educational and other organisations by loans and photographic repro-



CLOSED AFTER 130 YEARS : The pharmacy of Frazer & Green, Ltd., Buchanan Street, Glasgow, which closed down on December 31, 1958, after 130 years' trading. The illustration shows the company's shopfront as it was before 1935 when a new front was installed. An account of the company's history is on p. 8.

ductions. Its primary objective is to encourage the greater use of scientific and technical literature.

Travellers' Benevolence

ANNUAL COURT OF GOVERNORS

THE president (Lt.-Col. Sir James Horlick, Bt.) presided over the 109th annual court of governors of the Commercial Travellers' Benevolent Institution, held in London, on December 27, 1958. The annual report pointed out that with six candidates elected to the annuity at that court, and despite the deaths of twenty-seven annuitants in the year who had, between them, been paid a total of £20,844, the Institution still had 216 annuitants under its care. In addition to help from certain specially-created funds, there had been distributed during the year a total of £1,219 in temporary relief. "That is a continually expanding side of the Institution's work," emphasised the report, "and during the year many distressing applications — more often than not from non-subscribers — have been carefully and sympathetically dealt with by the board of management. Some thirty annuitants whose precarious state of health and circumstances were deemed to be deserving of additional aid, were given grants from the 'Wills' pension fund, which has disbursed £11,863." Sir James congratulated the board of management on the fact that though money for that purpose was now not easy to get, the Institution's finance was "in a not unhealthy state." The previous year's anniversary appeal had realised £9,174 (£364 more than 1957), but income from legacies had fallen, and there were inevitable increases in general administrative expenses. The court authorised a change of rule which empowered the trustees to invest the Institution's money in "outstanding securities of a commercial nature," with the safeguard that there should already be no less than £100,000 invested in trustee securities.

Glass Manufacturers

FEDERATION'S ANNUAL LUNCHEON

THE annual luncheon of the Glass Manufacturers' Federation was held in London, in December 1958. Proposing the toast of the guests, Mr. L. T. Sawney (president of the Federation and managing director, Thermos (1925), Ltd.) welcomed the visitors and especially Sir William Garrett (president, British Employers' Confederation) of which the Federation had been a member for many years. Mr. Sawney said that the Federation knew from experience of the value of the Confederation's work and the vigilance its members exercised on behalf of industry. He continued by saying that it was important that the industrial point of view should be made known to the Government and the public, on a diversity of subjects. Replying, Sir William said that the glass industry played a significant part in the economic life of the country, and added that the achievements of the industry, its great advances in the use of modern techniques, were not widely enough known. Training in industry was of utmost im-

portance and that affected the glass industry most seriously. The urgent need today was for the various industries to assess their future requirements and the glass industry had been among the first to do this.

SCOTTISH NEWS

Scottish Hospital Costs

IMPROVED COSTING INFORMATION

OF every £1 spent by the hospitals in Scotland, on the average, one shilling was for drugs, dressings and instruments and fivepence for "staff salaries and wages of medical auxiliaries and dispensary." That information was given in the Analysis of Running Costs of Hospitals for the year ended March 31, 1958, issued by the Department of Health for Scotland (Stationery Office, 10s. 6d.). The report consists of a number of tables showing the unit costs of individual hospitals, which are grouped together and listed according to their main function. Some of the information is tabulated below.

| HOSPITAL CLASSIFICATION | COST PER IN-PATIENT PER WEEK | |
|---|---|---|
| | Drugs, Dressings, Instru- ments, etc. | Staff remuner- ation, Medical Auxili- aries, Dispensary |
| General— | | |
| Major Teaching ... | £ 9 4 | 13 3 |
| over 300 beds ... | 1 3 1 | 12 6 |
| 51-300 beds ... | 1 4 2 | 9 4 |
| 1-50 beds ... | 14 1 | 2 6 |
| Chronic sick ... | 4 10 | 1 8 |
| Convalescent ... | 3 0 | 5 4 |
| Isolation ... | 10 8 | 3 1 |
| Sanatoria ... | 19 0 | 3 9 |
| Isolation and tuber- culosis ... | 19 3 | 4 11 |
| Maternity ... | 1 3 8 | 4 4 |
| Mental ... | 2 10 | 1 8 |
| Mental deficiency ... | 1 2 | 0 6 |
| Others ... | 14 10 | 8 4 |
| All types — average for Scotland ... | 12 4 | 5 1 |

The Analysis also includes for the first

time examples of the costs produced by an experimental system of departmental costing that indicates the kind of improved costing information that is becoming available for an increasing number of hospitals in Scotland. In this section the costs are given for sixteen hospital pharmacies, and are worked out per "New In- and Out-patient," and are as follows:—

| HOSPITAL | PHARMACY Costs per new in- and out- patient |
|----------------------------------|---|
| Glasgow Royal Infirmary ... | £ s. d. 12 0 |
| Eastern General, Edinburgh ... | 1 11 0 |
| Bangour General, Broxburn ... | 1 16 11 |
| Law, Carlisle ... | 1 0 11 |
| Raigmore, Inverness ... | 1 5 1 |
| Eastern District, Glasgow ... | 11 3 |
| Royal Alexandra, Paisley ... | 19 6 |
| Kilmarnock Infirmary ... | 12 0 |
| Greenock Royal Infirmary ... | 10 9 |
| Larkfield, Greenock ... | 1 4 6 |
| Royal Alexandra Annex ... | 3 16 1 |
| Gartloch ... | 13 12 0 |
| Bridge of Weir ... | 15 13 6 |
| Belvidere, Glasgow ... | 1 9 10 |
| Ayrshire Central (Maternity) ... | 2 9 6 |
| " " (Tuberculosis) ... | 2 9 6 |

IRISH NEWS

THE REPUBLIC

Manufacturers' Meeting

VARIED SUBJECTS FOR DISCUSSION

FOLLOWING the practice, adopted two years ago, of holding meetings at the premises of committee members, the Association of Irish Pharmaceutical Industry held a committee meeting recently in the board room of Boileau & Boyd, Ltd., Bride Street, Dublin. The president of the Association (Mr. Donal W. P. Boyd) took the chair. In addition to a number of items of a domestic nature, discussions took place on the provisions of the Merchandise Marks Acts, new Regulations made under the Health Act, 1947, and to the Free Trade Area.



After a committee meeting, members of the Association of Irish Pharmaceutical Industry toured the premises of Boileau & Boyd, Ltd. Seen here (left to right) are: Messrs. K. P. Donath (Mountmellick Products, Ltd.), E. McMahon (Lilmar Pharmaceuticals, Ltd.), Miss S. Nyhan (Association secretary), Messrs. S. McCauley (Irish Pharmaceuticals, Ltd.), M. B. Brophy (Boileau & Boyd, Ltd.), and D. W. P. Boyd (Boileau & Boyd, Ltd., president).

NEWS IN BRIEF

A BURGLAR stole £4 from the home of Mr. J. T. Hughes, M.P.S., Tottington, Lancs, on December 14-15, 1958.

RECENT official appointments announced include: Mr. F. D. Jakeway, to be chief secretary, Sarawak, and Mr. A. B. Cotay, Commissioner for Sierra Leone in London.

SALES by London Co-operative Chemists, Ltd., in the year ended September 7, 1958, totalled £2,651,287, an increase of £142,788 over the previous twelve months.

MR. William Strath has been appointed Permanent Secretary to the Ministry of Supply in succession to Sir Cyril Musgrave. He takes up his new duty in March.

BECAUSE of a road-widening scheme, Mr. J. W. S. Allwood, M.P.S., 51 Sankey Gate, Leicester, is having to sell his pharmacy premises, which have been in his family for fifty years, to the local council. He is negotiating for premises in another part of the city.

THE Ministry of Health has announced details of the capital allocation to regional hospital boards for 1960-61. The amounts range from £1,222 millions for the South West Metropolitan Regional Hospital Board to £486,000 for the Oxford region.

THE Token Import Scheme will continue in 1959 for imports from Canada and the United States of America on the same basis as in 1958. Copies of the list of commodities involved can be obtained from the Import Licensing Branch of the Board of Trade, 43 Marsham Street, London, S.W.1.

FINGER cots were added to the list of appliances which may be supplied on an EC10, by the National Health Service (General Medical and Pharmaceutical Services) Amendment (No. 2) Regulations 1958 (S.I. 1958, No. 2149), which came into operation on January 1.

DETAILS of the increase of fees and salaries for doctors and dentists under the National Health Service have been announced by the Ministry of Health. They will take effect from January 1. For general practitioners the capitation payment will be increased from 17s. 6d. to 18s. a year.

WOLVERHAMPTON Executive Council has recommended that a firm of chemists should have £5 withheld from its remuneration. A medicine ordered on a test prescription had been handed out before it had been completed. The Council also drew the attention of the Local Pharmaceutical Committee to the matter.

BECAUSE of title changes of certain institutions the Home Office announce the following amendments have been made to Schedule B of the notice referring to approved Institutions under the Dangerous Drugs Act, 1951, dated February 23, 1954:—Delete "Cardiff Technical College" and substitute "Welsh College of Advanced Technology." Delete "Chelsea Polytechnic" and substitute "Chelsea College of Science and Technology." "Leicester College of Technology and Commerce": After Pharmacy, add: Biology, Chemistry.

TOPICAL REFLECTIONS

By Xrayser

Nature's Remedies

Your leading articles in last week's issue (p. 687) deal with matters of great importance. That entitled "Odds Against Pharmacognosy" is a particularly well-timed and judicial appraisement of a situation that is difficult to understand. I am in entire agreement that the plant kingdom has suffered eclipse in recent years, and I have long thought that modern research has become obsessed with its cleverness in chemistry. Anything not clearly demonstrable in terms of scientific accuracy has become suspect. In assessing the causes of our neglect, you mention that some of them are historical, some physiological and some fortuitous. There may also be adduced the pitying allusions to "sentiment," levelled against those of us whose introduction to pharmacy—perhaps induction comes nearer an adequate description—was at the hands of a master who had seen little change in pharmaceutical practice in his lifetime. A little research serves to show that little change had taken place for much longer than one lifetime. Consequently, any reference to the remedies of an earlier age is regarded as of the heart and not of the head. Yet it seems inconceivable that all the discarded remedies of our forefathers deserve the oblivion that is theirs. Some benefit must have been obtained from some of them, and I feel that there is a fruitful field awaiting research workers who may be lucky enough to find financial backing in a peaceful pasture far removed from the highly-competitive, commercial battlefield of which we are daily reminded. But, in fact, the complaint is not new.

"Sir" John Hill

In his "Family Herbal" published 200 years ago, John Hill wrote: "Nature has, in this country, and doubtless also in all others, provided in the herbs of its own growth, the remedies for the several diseases to which it is most subject. . . . The present use of chemical preparations has almost driven the whole galenical medicine out of our minds." Hill, who was a physician, was awarded a Swedish decoration, and thereafter called himself "Sir" John. He was the formulator of a pectoral balsam of honey, the recipe for which provided his widow with an income for many years after his death. The advertisements for the balsam did not err on the side of modesty, for they referred to him as the "Linnaeus of Britain." The advertisements also, with a somewhat slight regard for ethics, mentioned that Gustavus the Third, King of Sweden, had honoured Hill with a letter, accompanying it with the Royal Order of Sweden. It is sad to relate that no medicine was ever so universally counterfeited as that was, so that it became necessary for Lady Hill to take the precaution of signing her name in red ink on every bottle. (In that regard also, there may be traced an historical parallel between Hill and the present day.) But it may be that Hill was not far wrong in his suggestion that there was a danger of neglecting the galenical preparations. I heartily subscribe to your praise of Professor Trease's lecture.

Private Medicine

Your other editorial article deals with the efforts, on behalf of those who choose to consult their doctor privately, to have their medicines on the same terms as those who use the National Health Service in its entirety. You make several important points. The question is, as you rightly point out, a much wider one than appears to its advocates. Pharmacy is involved, and so are the public in general. It could not be foreseen that new treatments, many of them initially expensive, would become so large a part of modern medicine. It is understandable that those who elected to remain aloof from the service in 1948 are coming to question the wisdom of their choice pharmaceutically. But to use Health Service funds as a subsidy to enable a section of the population—medical and lay—to offer and receive some kind of preferential treatment by "contracting out" seems to me to be opposed to the spirit of the Service and against the best interests of the community.

PACKAGING PHARMACEUTICAL PRODUCTS

Discussions at an evening meeting of the Pharmaceutical Society

THE importance of packaging in the pharmaceutical industry was becoming more widely recognised commented MR. J. ANDERSON (packaging manager, Allen & Hanburys, Ltd.) at a scientific meeting of the Pharmaceutical Society, in London, on December 11, 1958. Mr. Anderson was addressing the meeting on "Recent Advances in Packaging Pharmaceutical Products." He reminded his audience that it was towards the end of 1950 when the chairman that evening (Mr. H. G. Rolfe) led a productivity team to the United States, "and within their terms of reference they had to study packaging." There was an increasing awareness then, of the benefits to be gained from applying packaging "know-how." The volume of packaged goods was increasing and hand-packing was giving way to mechanisation. New materials were becoming available and rising costs required improved speeds of filling; machines had to be found for every part of the package production line. The corked bottle, adequate for most packaging requirements, had to be replaced with a pack giving greater consumer convenience, that had better handling characteristics and designed for easier filling and assembling on the line.

"A Complex Problem"

"In the pharmaceutical industry we have a most complex problem when it comes to packaging, and most manufacturing houses have had to channel their problems through someone whose job it is to keep abreast of new developments and new methods. So evolved the packaging manager, who should preferably have a pharmaceutical background and must be part salesman, part engineer and part purchasing officer. Technical help is available from suppliers of materials; packaging journals are available, and in many establishments today a research laboratory assists in testing materials and prototypes of packs."

There were two main aspects of packaging: Functional and visual efficiency. He intended to deal with the former. It was the packaging specialist's function to develop a sound and economic packaging programme. It would be convenient if he could pack to a formula, but practical packagers knew that few problems could be resolved on purely theoretical grounds. Few products lent themselves to economic runs on fully automatic lines. Though not the best way of packaging his product the specialist had to remember the Ministry of Health's interest in the economies to be gained in large size dispensing packs. He knew, too, that despite the infinite care devoted to the packing of sensitive tablet products, they would most likely be dispensed in unsuitable carton skillets.

Protection was the main function of the pharmaceutical pack and there were certain influences affecting the choice of packaging materials. Those were outlined by the speaker.

PHYSICAL DAMAGE: The pack had to

protect and cushion the product against the hazards of handling in transport and shipping. **PACKAGING MACHINERY REQUIREMENTS:** The pack must lend itself to ease of handling on existing equipment. **PRODUCT CHARACTERISTICS:** The research laboratory furnished the necessary technical data such as the chemical and physical properties of the material, and having previous knowledge of the type of container now in favour the packaging manager could formulate accordingly. For the pressurised can, formula requirements were exacting. **SHELF-LIFE:** Generally pharmaceutical products had to have a lengthy shelf-life. The package could not do more to extend that beyond the product's own chemical and physical limitations. Other means had to be adopted, such as cold storage, if the time had to be extended. A clear definition of the expected shelf-life was important in building the package. It was too expensive to over-pack if that was unnecessary. In addition differing climatic conditions had to be taken into consideration. **MOISTURE AND MOISTURE VAPOUR:** "I would say the most critical factor in the selection of packaging materials is the need to get the maximum protection against moisture vapour to increase shelf-life. Even today, with products hypersensitive to moisture, one is restricted to hermetically-sealed glass or metal containers. It is doubtful if any flexible packaging is proof against the ingress of moisture vapour at all temperatures. A tremendous amount of time and effort in recent years has been put into the study of materials, and their water vapour permeabilities. Control of moisture content begins at the time of manufacture, and is maintained in the area of packaging. If the product has to be kept within strict limits of moisture content, then the pack has to do that over the agreed period of storage."

Of light sensitivity, Mr. Anderson pointed out that with transparent packs, if sufficient oxygen was present, light catalysed oxidation. The prevention of oxidation processes played a big part in packaging. Spoilage, by alteration in appearance, flavour, reduction of vitamin values, precipitation, etc., led to a falling off in value, and the product had to be rejected. Rise of temperature as met with in tropical areas, accelerated deterioration. Use was made of antioxidants and de-aeration by filling under an inert gas, and easily oxidisable flavours were replaced by less susceptible types. Vacuum filling, and storage at low temperatures also helped to prevent oxidation.

Another important factor that had to be considered was preservation against moulds. Fungicides were used and care should be taken to avoid the use of materials that gave good sub-stratum for mould growth and adhesives made from gums, starches and dextrans.

Packaging Materials

Dealing with the principal packaging materials, Mr. Anderson said that despite inroads made by metal and plastics, glass was "still the packagers' best

friend." It was hygienic, being impermeable to liquids and gases. Its chemical inertness suited it particularly to pharmaceutical needs. It could be wet or dry sterilised. Resistance could be enhanced by sulphuring in a lehr. Special highly-resistant glasses were available for more specialised usages. Manufacturers had kept the surface alkalinity of ordinary glass low, and by light-weighting the glass had, in addition to lowering the overall weight, increased its resistance to thermal shock and maintained its dimensional stability. Silicone solutions sprayed internally on glass containers, which were then stoved, had found application in certain directions, and the use of ceramic printing instead of paper labelling had increased. In addition, glass, being washable and sterilisable, lent itself to multi-trip usage.

Mr. Anderson sounded a warning note in his comments on plastics. He said that the progress made to date was an indication of the future use of plastics. Packaging technicians were keenly interested in the challenge to extend the use of plastics in the pharmaceutical field. However, materials had been submitted, supported by tempting claims, which on test had been found to be untrue. Careful selection and testing was necessary, and in combination with foil, plastics had provided packs with a high degree of protection.

Both thermosetting and thermoplastic materials had found a use, and corks were being replaced by plastic screw caps made from phenol or ureaformaldehyde resins.

"Maids of All Work"

"Thermoplastics, particularly polythene, have become the maids of all work," continued the speaker. "Polythene in the form of the squeeze-type of bottle has revolutionised the use of certain products. As a container liner for certain active chemicals, it has produced a situation which leads one to wonder what we did in the old days. However, although polythene is immensely versatile and has many advantages, it also has distinct limitations: It has a poor retention of aromatic flavourings; it is permeable to certain greases and oils; the oxygen permeability is high. Higher density polythene is being produced and because it withstands higher temperatures, makes wet sterilisation possible. Where needed, greater rigidity in the thin-walled containers will be available for easier handling and filling."

Polyvinylchloride is another plastic finding increasing use pharmaceutically. It is heat sealable, has a low moisture vapour permeability and low water absorption rate. There is good resistance to oils and when plasticised, with low toxicity plasticisers, it can be successfully used to line chemical containers."

Of film laminates, Mr. Anderson said that the ideal single web had not been found, although many could be used quite successfully. It was in the field of laminates that he considered pharmacy would find the most suitable packing material.

More work was needed before plastic tubes could be used extensively in the pharmaceutical field. Internal and external lacquering had been attempted, but had to be formulated to each particular product. Modifications to existing filling and sealing equipment could be made, but problems still existed.

"It is said that 60 per cent. of all collapsible tubes made today are in aluminium. Foil, not thicker than 6 thou., finds ever increasing use in all gauges. Sheet, plain or anodised, can be used to produce seals for bottles and multi-dose vials. Extruded tubes, in many diameters, are used as containers for many pharmaceuticals. Like glass, aluminium can be sterilised; it is hygienic, tasteless, odourless and non-toxic. It makes a good barrier against water-vapour, odours and gases. Where it is liable to corrosive action protection can be given by using high stoving lacquers such as the epoxy resin type, or the aluminium may be anodised. Foil has greatly added to the protective element of tablets that are strip-packed."

Research was fundamental in all new product development today. In addition to supplying formula data, the research department did accelerated tests on prototype packs, and correlated the information obtained with information gained from field storage tests. Quality control on packaging materials was another field of its work that helped to increase production efficiency. Faulty deliveries of suppliers' materials were detected by a statistical sampling control when goods were delivered and before they reached production lines.

Discussion

MR. McCARTHY asked if a special type of rubber was used in combination with aluminium for the cap of insulin vials, and why, as shown on one of Mr. Anderson's slides, a bottle was filled with powder to a particular level instead of to the top. MR. ANDERSON said that the ideal combination of materials for capping insulin bottles was still being sought. At the moment latex rubber was the only material that gave satisfaction. Other types of rubber led to precipitation. The powder had to be packed by weight and his company had found that filling to a specific level in the bottle was the quickest way of doing it.

MR. ROSS said that plastic bottles with plastic caps seemed more prone to loss of the contents in transit. MR. ANDERSON explained that ureaformaldehyde caps were inclined to shrink in transit—that was why Allen & Hanburys used aluminium caps. Another questioner asked if there was any objection to polystyrene as a packaging material. Mr. Anderson pointed out that it had little resistance to aromatic flavouring which soon was "lost." It was also vapour permeable.

Another speaker complained that some books of reference used loosely descriptive terms for the types of container that should be used for packaging particular medicaments. After agreeing, Mr. Anderson said that he thought there had been an improvement in the B.P. Addendum 1955 where "a well-closed container" was defined as one that did not admit water vapour.

The problem of variation of tolerances in containers, particularly those filled by high-speed machines was raised. MR. CLARK (Beatson, Clark & Co., Ltd.) said the British glass manufacturing industry was doing its utmost to introduce standards for capacities and dimensions of glass containers. British Standards had been evolved for many types of bottle.

MR. DEARE suggested that the cleaning of plastic containers presented difficulties because of their electrostatic property. MR. AMIGO said that manufacturers of plastic containers were trying to introduce into plastics an anti-static powder—so far without success.

DR. G. E. FOSTER asked Mr. Anderson if he would say something about the moulding of neutral glass. DR. FOSTER thought neutral glass was very hard and could not easily be moulded on machines. One suggested method of overcoming that difficulty was to make the container of soft glass and then treat it with SO_2 which gave it a hard "skin." MR. ANDERSON said sulphurated glass was, he thought, as good as neutral glass. It was used for all the intravenous injection bottles issued by Allen & Hanburys.

MR. DAVIDSON asked if there had been any research on the production of a one-piece eye-dropper bottle for dispensing purposes. MR. ANDERSON: "We are still looking for the ideal dropper. At present the best one is a container and a succession of sterilised pipettes."

MR. MARSH asked if the plastic foam used as a "wedge" in bottles held much moisture. MR. ANDERSON said that particular precautions were taken with the polyurethane foam and the amount of moisture introduced was small. Cotton-wool for stuffing tablet bottles, unless it was dried, contained about 8 per cent. moisture. In reply to another question, Mr. Anderson said that the minimum gauge for aluminium foil to ensure that it was pinhole free was .03 mm. Even so, Mr. Anderson pointed out, there might be a few pinholes,

but they were commercially acceptable.

MR. D. H. MADDOCK said that some time ago some of the larger pharmaceutical houses introduced polythene containers for certain ethicals and for dry powders not normally sold to the public. That trend seemed to have decreased rather than increased. In view of the disadvantages Mr. Anderson attributed to polythene, were those manufacturers too hasty in applying polythene containers and did Mr. Anderson think there was any future in polythene for packing galenicals? MR. ANDERSON said that he had attended a conference at Buxton [A.B.C.M. packaging conference, C. & D., March 29, 1958, p. 347] that dealt extensively with the question of packing chemicals in plastic containers. He had also done a lot of work on the use of plastic liners. After about six weeks the liners became permeable so that a quick turnover was necessary when using that method of packaging. "We have a long way to go yet to find the ideal lining material."

MR. ANDERSON, after briefly discussing internal lacquering of aluminium tubes, said that a system of testing that lacquering was needed.

He was asked if the pilfer-proof closure was successful for hygroscopic materials for the tropics. MR. ANDERSON had no experience of that but suggested that it would not be so reliable as the wads he had described. Polythene by itself was no use as a wad—it had to be backed by a cushioning material.

MR. MARSHALL asked if Allen & Hanburys capped and plugged aluminium tubes by machine. MR. ANDERSON replied that the company found that their operators "do it very well by hand" although he thought that the process would eventually have to be mechanised. He later added that the use of polythene plugs in glass seemed more successful than in aluminium. He confirmed that polythene plugs were suitable for tablet-packings for consignment to the tropics.

BRANCH

DURHAM

President in Attendance

ATTENDING the recent annual dinner and dance of Durham County Branch of the Pharmaceutical Society, held in Durham, were Mr. D. W. Hudson (president of the Society) and Mrs. Hudson, and the mayor and mayoress of Durham. They and members and their friends were welcomed by the branch chairman (Mr. L. Wood). The mayor (councillor J. A. Naylor) proposed the toast "The Pharmaceutical Society," to which Mr. Hudson responded. Dancing followed until 1 a.m.

MANCHESTER

Guild Motions Discussed

MOTIONS submitted for the annual delegate meeting of the Guild of Public Pharmacists were discussed at a meeting of Manchester Branch of the Guild held in Manchester in December 1958. Afterwards Mr. W. E. Phillipson (branch secretary) projected coloured transparencies taken by members on their holidays. They included views of Norway, Sweden, Italy, the Brussels

EVENTS

Exhibition, Holland, Belgium and many places in Scotland, England and Wales.

WESTERN [LONDON]

The Art of Make-up

Miss P. Gardner (Max Factor Hollywood and London (Sales), Ltd.), spoke on "You at Your Loveliest," at a meeting of the Western [London] Pharmacists' Association in December 1958. She demonstrated the latest methods used in the art of make-up, and also spoke of the useful work she and the Max Factor organisation were doing in training the blind and in assisting the plastic surgeon. The talk was addressed to a large audience and was greatly appreciated by the ladies—and even the men could admire the eloquence and skill of the lecturer.

N.H.S. STATISTICS

Estimates, 1959-60

BRADFORD.—Total, £1,171,660; pharmaceutical services £419,800.

LANCASHIRE.—Total, £7,443,090; pharmaceutical services, £2,842,800.

COMPANY NEWS

Last year's figures in parentheses

THORNTON & ROSS, LTD.—Messrs. Robert Henry Whiteley, M.P.S., Ralph Thornton, B.Pharm., A.R.I.C., M.P.S., and Vernon Ellerker Ross, M.P.S., have been appointed to the board.

IDRIS, LTD.—Group net profit expanded to £102,866 from £51,489, before tax of £44,038 (£21,862), in the year to October 31, 1958, and the dividend is raised from 12 per cent. to 17 per cent. General reserve receives £65,604 (nil), and the carry-forward is £46,150 (£85,362).

IMPERIAL CHEMICAL INDUSTRIES, LTD.—The chairman (Sir Alexander Fleck), in declaring officially open the Melbourne, Australia, house, said the building was a landmark in Australian manufacturing development. During the thirty years that the present company (I.C.I.A.N.Z.) had been established the capital and reserves had risen from £2 millions to £26 millions. Thirty years ago about 400 people were employed, employees now number nearly 7,000 in Australia alone. Sales per annum have risen from less than £1 million to over £45 millions. At least as significant as the increase in turnover was the change in the pattern of the business. Thirty years ago about three-quarters of the turnover represented the marketing of imports from Britain. Today the reverse was the case. While only 25 per cent. of its turnover was now imported, that smaller percentage of imports was in absolute volume much greater than the figure for pre-war.

New Companies

P.C. = Private Company; R.O. = Registered Office

F. NICKSON (MACKWORTH), LTD. (P.C.)—Capital £2,000. To carry on the business of wholesale or retail chemists, etc. Directors: Frederick Nickson, M.P.S., Constance V. Nickson and Francis R. Innes. R.O.: 116 Abbey Street, Derby.

N. A. W. EDWARDS & CO., LTD. (P.C.)—Capital £500. To carry on the business of wholesale and retail chemists, druggists, etc. Subscribers: Norman A. W. Edwards, 56 Torrington Park, London, N.12, and Francis D. Pontet. The first directors are to be appointed by the subscribers.

GREENE BROTHERS (CLAPHAM JUNCTION), LTD. (P.C.)—Capital £100. To carry on the business of wholesale and retail chemists, etc. Directors: Louis Gilbey, Harry B. Greenberg and James A. Coulson, M.P.S. R.O.: 291 Lavender Hill, London, S.W.11.

McDERMOTT, MURRAY, LTD. (P.C.)—Capital £100. To carry on business, both wholesale and retail chemists and druggists, etc. Directors: John D. McDermott, M.P.S., Constance E. McDermott, James Murray, M.P.S. R.O.: 1 Raynor Road, Fallings Park, Wolverhampton.

T. WALTON (CHEMIST), LTD. (P.C.)—Capital £2,000. To acquire the business of T. Walton carried on by

Thomas B. G. Walton, M.P.S., at 2A Halifax Road, Liversedge, Yorks; to carry on the business of chemists, druggists, etc. Directors: Thomas B. G. Walton, Jean M. Walton and Arthur J. Butterfield.

PELOID LABORATORIES (LIVERPOOL), LTD. (P.C.)—Capital £1,000. To carry on the business of manufacturers of and dealers in pharmaceutical and chemical preparations, etc. Directors: Lester A. Prosser (Canada), William S. Stacey, Patrick J. Donoghue. R.O.: Chapel Chambers North, 28 Chapel Street, Liverpool, 3.

BUSINESS CHANGES

SOUTHON LABORATORIES, LTD., have removed to Western House, Gravel Hill, Bexleyheath, Kent (telephone: Crayford 25586).

ABBEY PARFUMERIE CO., LTD., have removed to 7 Oxford Circus Avenue, London, W.1. The company announce also that they have been appointed sole distributors for Houbigant perfumes in Great Britain and Ireland.

MR. HEDLEY J. CLARKE, M.P.S., closed down his pharmacy in Blundellsands Road West, Crosby, Liverpool, on December 31, 1958. The premises were associated with pharmacy for eighty-five years.

Appointments

EVANS MEDICAL SUPPLIES (IRELAND), LTD., Distillery Road, Dublin, have appointed Mr. T. A. Kelly, L.P.S.I., to be in charge of their proprietaries department.

BOWATER - SCOTT CORPORATION, LTD., Knightsbridge, London, S.W.1, have appointed Mr. R. G. Lagden their marketing manager to co-ordinate the sales, advertising and research activities of the company.

THOMAS HEDLEY & CO., LTD., Gosforth, Newcastle-on-Tyne, 3, announce that Mr. D. A. Bourke (sales manager in the Manchester district since June 1957), is to become sales supervisor for the Procter & Gamble Co., Puerto Rico. Mr. Bourke will be succeeded as Manchester sales manager by Mr. J. E. McMullen.

DEATHS

ALGAR.—At 85 St. Helen's Road, Booterstown, co. Dublin, Professor Joseph Algar, D.Sc. Professor Algar was Professor of Chemistry in University College, Dublin, for many years, until his retirement in 1957.

MASKELL.—On December 20, 1958, Professor Ernest John Maskell, F.R.S., Mason Professor of Botany, University of Birmingham, aged sixty-three.

NICHOLSON.—At Takapuna, Auckland, New Zealand, recently, Mr. John Thompson Nicholson. Mr. Nicholson, who qualified as a chemist and druggist in 1911, emigrated to New Zealand in 1951 upon retiring from business in Appleby, Westmorland, where he owned a pharmacy for over forty years. Mr. Nicholson's son, Tom, is also a pharmacist in business in New Zealand.

OGILVIE.—Recently, Mr. William John Ogilvie, M.P.S., High Street, In-

vergordon, Ross and Cromarty. Mr. Ogilvie, who died suddenly, did much work in the town for charity. During his younger days he took part in many plays and concerts. He qualified in 1923.

PERSONALITIES

MRS. MARGARET STILES, M.P.S., Ascot, Berks, was the author of an article "A Career for Your Daughter: The Pharmacist" published in the January 1959 issue of "Homes and Gardens." Mrs. Stiles was formerly a member of the editorial staff of THE CHEMIST AND DRUGGIST and is now in retail practice.

MR. D. ROYCE, M.P.S., founder of D. Royce, Ltd. (see p. 14), served his apprenticeship with Boots, Ltd., 1936-40, and studied at Leeds Technical College and Leeds University. During the 1939-45 war he was in the Fleet Air Arm (air-crew observer), rising to the rank of sub-lieutenant. He has been a member for seven years of the committee of Leeds Branch of the Pharmaceutical Society, of which he was chairman 1957-58 and is at present vice-chairman. He is also secretary of the local branches of the National Pharmaceutical Union and the Chemists Federation.

LEGAL REPORTS

Price Injunctions

In the High Court of Justice on December 16, 1958, Chesebrough-Ponds, Ltd., Victoria Road, London, N.W.10, were granted perpetual injunctions against F. A. Darvil, 103 Broadway Market, London, S.W.17, and Percy Holmes, Shepherd's Bush Market, Shepherd's Bush, London, W.12, restraining them from reselling any of the plaintiff's goods except at the fixed retail prices shown in their price lists. The defendants were ordered to pay costs. In the same court on December 18, 1958, Vick International, Ltd., 10 New Burlington Street, London, W.1, were granted a similar injunction against J. Mindel, Ltd., 4 Broad Street Place, London, E.C.2, who were also ordered to pay £2 damages and costs.

"Nothing Sinister"

FINES totalling £72 were imposed at Middlesbrough, on December 17, 1958, on John Vincent Boagey, M.P.S., 251 Acklam Road, Middlesbrough, when he admitted six charges of buying and selling Dangerous Drugs without entering details in the drug register on the day of the transaction or on the following day. Prosecution said that the offences were discovered during a routine inspection. Boagey had previously been warned about the necessity of keeping records. For Boagey, who pleaded "Guilty," it was said that there was no question of obtaining or selling drugs improperly. The clerical work had got on top of him because of staffing problems which had now been solved. The stipendiary magistrate commented that there was "nothing sinister" in the offences, but slackness in such matters could not be tolerated. "One expects chemists to carry out the regulations to help the authorities keep track of drugs," he said.

A WHOLESALER'S 140th (or 141st) ANNIVERSARY

Bradley & Bliss Ltd., Reading, hold a celebration dinner

NOT many companies holding a celebration to mark their 140th year in business can be told on such excellent authority as that of the chief burgess of their town that they have been too modest by one year. That is what happened when the mayor of Reading (COUNCILLOR E. A. BUSBY) gave his hearers the benefit of his researches into the town's records in proposing the toast of the company at a dinner held by Bradley & Bliss, Ltd., London Street, Reading, on December 20. The mayor quoted an issue of the *Reading Mercury* of 1817 as offering proof that the business had been established in Fisher Road in 1817, later transferring to Market Place. In 1871, he said, the business had been acquired by Mr. Jameson and in 1874 took on its present title of Bradley & Bliss. The business had been one of the first in Reading to install a telephone (number: Reading 8) and was one of only twelve subscribers out of the first seventy-two to have facilities for trunk calls.



CUTTING THE CAKE: Mr. and Mrs. G. G. Hammond prepare to cut the birthday cake at the 140th anniversary celebration of the founding of Bradley & Bliss, Ltd. With them are the mayoress and mayor of Reading.

The response to the toast of "The Company" was made by the chairman (COUNCILLOR G. G. HAMMOND), who said that with any enterprise there were two necessary ingredients: good management and good fortune. Though not qualified to comment on the former he could freely admit that the business had been fortunate in many ways. It had been fortunate in its friends. It had many hundreds of chemist friends, some with businesses nearly as old. In fact the occasion was unique in that there was present that evening representing local pharmacists Mr. J. P. Bate who was chairman of the local Branch of the Pharmaceutical Society and also the owner of the original retail business of Bradley & Bliss. The business had friends, too, in the medical profession, and had had even closer ties with them before 1948. The one-time chairman of the company (Lieutenant-Colonel Bradley, R.A.M.C.) had been a doctor.

He next mentioned those friends of the business, the public, whom it had served for 140 years, originally as retail chemists in the Market Place and then as manufacturing and wholesale chemists.

"Lastly but not least we have our



CHAIRMAN, GUESTS AND VETERANS: Mr. G. G. Hammond with the mayor of Reading, the chairman of the local branch of the Pharmaceutical Society (Mr. J. P. Bate) and members of the company's staff who have been in the service of the company for more than twenty-five years.

own staff, many of whom have been with the firm for more than twenty-five years. Leading that ever-youthful band is Mr. Stevens, who is approaching his fortieth year."

Pharmacy, said Mr. Hammond, had come a long way also from the days when ingredients included such things as earthworms and live frogs. The coughs and complaints are much the same, only it costs a little more to cure them (though at least they were cured). There had been many attacks on the

cost of drugs today, but the writers seldom took into account the many scourges which no longer hold their terrors. Infant mortality was going down and down and soon the only thing left would be old age (and that too might yield up its secrets).

A toast to the guests was proposed by MR. J. P. BATE, M.P.S. (chairman, Reading Branch of the Pharmaceutical Society) and responded to by MR. E. E. STENNELL, A.C.I.S., and dancing followed until 1 a.m.

D.D. AUTHORITIES WITHDRAWN Home Office list

THE following is a list of persons as at January 1 from whom authority to possess or supply Dangerous Drugs under the Dangerous Drugs Act, 1951, has been withdrawn:—

**Medical Practitioners
GREAT BRITAIN**

ACI AND, Max, 62 Barking Road, London, E.16, and 17 Esplanade, Whitley Bay.
ADAMS, John Bodkin, 6 Trinity Trees, Eastbourne, Sussex.
ANDERSON, John Galbraith Mackay, Bradshaws Hill House, Torquay, Devon.
BALFOUR, William Leslie, 10 Corrennie Gardens, Edinburgh, 10.
BARNETT, Bernard John, Adams Road, Woodford Halse, Rugby.
BARRIE, William George, Holmhead, Kilbirnie, Ayrshire.
BRADFORD, Robert Ian Cranston, Cane Hill Hospital, Coulsdon, Surrey.
BENTLEY, Joseph Henry, Littlewick, Limpsfield, Oxted, Surrey.
CASE, Ralph Martin, 9 Woodthorpe Road, Putney, London, S.W.15.
CHURCHILL, Henry Joseph Constantine, 14 Hanover House, London, N.W.8.
CUNNINGHAM, James, Abbey Street, Ballyhaunis, co. Mayo, Eire.
DIN, Mirajud, 180 Monument Road, Edgbaston, Birmingham.
GAVIN, Alec Gordon Douglas, 12 Church Street, Leatherhead, Surrey.
GRANT, George Osmond, 86 Warwick Road, Carlisle.
HALL, James Christian, 49 Plashet Road, London, E.13.
HARROP, Alfred Leslie Clare, 1 St. Helens Lane, Otley Road, Leeds, 6.
HERBERT, Noel Morley, 5 Queen Street, Scarborough, Yorks.

HIRSCHMANN, Joseph, Upper House, Clunbury, Craven Arms, Salop.
HUNT, John, Gowenbank, Hawick, Roxburghshire.
JAYEKODI, Hapuarachige Don Joseph, 128 Liverpool Road, London, N.1.
KELLY, Terence O'Neil Fraser, 185 Westburn Road, Aberdeen.
LAWLER, Florence Berchmans, 50 Beaumont Street, London, W.1.
LEVEN, Thomas, 2 Beech Avenue, Irvine, Ayrs.
LUCAS, Marcus Gershon, Dunedin, Stratford Road, Shirley, Warwickshire.
MACDOUGALL, John Adams, 34 Liberton Brae, Edinburgh.
MACLEOD, Ian Fleming, 5 Gavinburn Terrace, Old Kilpatrick, Glasgow.
McGILVRAY, John Robert, Highcroft Hall Hospital, Erdington, Birmingham, 23.
MATTHEW, John Millar, 176 Farley Road, Selsdon, Surrey.
MILES, William Graham, Druidstone House, St. Mellons, Mon.
MILLINGTON, Esmond, 72 The Drive, Hove, Brighton 3, Sussex.
MORISON, Robert Archibald Herschell, Burden Neurological Institute, Bristol.
O'REILLY, James Joseph, 4 Danyraig Road, Risca, Mon.
PATERSON, James, Lower House, Lepton, Huddersfield.
POSTHUMA, Margaret Philippa, Weaver's, North Wraxall, Chippenham, Wilts.
PROCTER, Arthur Percival, Douglas Lodge, Vancouver, B.C., Canada.
SIMPSON, John, 12 Willowbank Street, Glasgow.
SMITH, Alistair Hamilton, The White House, The Square, Tenbury Wells.
SMITH, Conrad Hunter, Aykley Heads, Elham, Canterbury, Kent.

SULNSKA (Mrs.), Halina, 113 Eton Hall, Eton College Road, London, N.W.3.
 THOMPSON, William David, 226 Cathedral Road, Cardiff.
 TOBIN, Joseph Anatole France, Ponsanooth, Truro, Cornwall.
 TODD, Walter Allan, 124 Landor Road, London, S.W.9.
 VICCHI, Riccardo, 58 Great Russell Street, London, W.C.1.

WHITEHOUSE, Conrad Spencer, 11 Handsworth New Road, Birmingham 18.
 NORTHERN IRELAND
 LEWIS, Ida May (*née* Kirker), 25 College Gardens, Belfast.

Dentist and Pharmacist
 LOMAX, Fred Westby, address unknown.

Dentists

HARRISON, Fred Edgar, 9 Elm Gardens, Tattenham Corner, Epsom.

SCOTLAND, John Kennedy, 9 Battlefield Gardens, Langside, Glasgow, S.2.

Pharmacists

JOHN, Alfred, address unknown.
 LEVINE, Solomon, address unknown.
 SANDERS, George, address unknown.

Midwife

SHEARING, Inez Violet Filomena, 55 Charlton Road, London, N.7.

OLD-ESTABLISHED GLASGOW BUSINESS CLOSES

Frazer & Green, Ltd., cease trading after 130 years

THE closing down on December 31, 1958, of the pharmaceutical business of Frazer & Green, Ltd., 127 Buchanan Street, Glasgow (see *C. & D.*, November 29, 1958, p. 578), brought to an end a pharmaceutical business that had been in existence for almost 130 years.

As has occurred with so many family-type pharmacies situated in the centre of large cities, the premises have been sold for development of the valuable site, and the rent required thereafter by the new owners proves to be uneconomic for a pharmaceutical business under present-day conditions. In some instances businesses have reopened in new development areas, but the Trust which owns the Frazer & Green company decided to close down altogether rather than move to a new area. The type of business associated with their name could not, it is considered, be perpetuated in another locality, and in fact the principal shareholder was anxious that it should not. Additionally, of course, the large and lofty premises were too big for current requirements. The massive and dignified fittings, and the large array of shop rounds, are of little importance or meaning to the best customers of today — the teenagers — Mr. P. C. Spence (managing director) told a representative of *THE CHEMIST AND DRUGGIST* recently. "No Waiting" signs introduced into the city recently had also taken their toll of trade, though the "turn of the tide" could be traced back to 1948, when the National Health Service was introduced and private prescriptions began to decrease.

Old Prescription Books

The company have been subscribers to *THE CHEMIST AND DRUGGIST* from the earliest days of publication, and the weekly issues have been bound each year and stored. The oldest prescription book found in the cellar of the Buchanan Street pharmacy was dated 1848, though it was in such bad shape from damp that it fell apart on being handled. There are few remaining souvenirs of the past and no old drug jars. One of the company's price lists dated 1897 has been preserved. It shows the type of cut-throat competition that existed at the time. For instance, a 2s. 9d. Angier's emulsion was offered "for cash" at 2s. 3d.; a 2s. 6d. Bengers food at 2s., and a 1s. Hazeline Snow for ninepence. The company had at one time a flourishing mineral manufacturing business, and were the first in Glasgow to manufacture siphons of soda water.

The business began at No. 105 Buchanan Street in 1830. It was, in fact, opened by Ninian Bannatyne Frazer on the same day that William IV was proclaimed King at Glasgow Cross. Ninian's brother James acted as assistant, and another brother, Daniel, who was destined to become the most famous, was the apprentice. The rent of the shop at the time was £35.

Branch Established

The cash sales for the first six months of trading amounted to less than £120 in value, and that of the day-book was even less. In 1832, however, the business was helped by an outbreak of Asiatic cholera. A pitch jacket to be worn as a preventative was introduced from Germany by Ninian, and it came to enjoy a considerable reputation. In 1834 the single-windowed shop was enlarged to become double-windowed, and a branch was established at Ayr in 1836. It was in that year that Ninian Frazer died at the age of twenty-seven. Daniel, seventeen at the time, was too young to take responsibility of the main business in Glasgow, and his widowed mother (Mrs. N. B. Frazer) entered into partnership with Mr. George Green. In 1837 the business was transferred to No. 111 in the same street at a rent of £80, rising during the five-year lease to £120. In 1842 the landlord demanded £180 for the new rental, and Mr. Green refused to give what he regarded as a preposterous increase. Instead he rented premises at No. 113 on a ten-year lease at a rent of £230 a year. There the pharmacy remained for forty years, the value of the premises increasing until the rent reached £600. In 1884 Mr. Green and Mrs. Frazer were appointed chemists to Queen Victoria, and the Royal appointment was held right up until the 1914-18 war, being transferred to successive directors as circumstances made that necessary. Mrs. Frazer retired after ten years' partnership, Daniel entering in her place. When Mr. Green died in 1849 the business was in a somewhat embarrassed financial state, as he had withdrawn much of his capital in order to speculate on the many railway development projects of the time. Mr. Frazer, however, decided to carry on the business under the old style and did so until his death in 1900.

Daniel Frazer served pharmacy well and, elected to the Council of the Pharmaceutical Society in London in 1871, he was one of the most strenuous advocates for laying the Council's minutes open to the Press. He was strongly

opposed to interference with the old way of conducting the Scottish affairs of the Society. When the British Pharmaceutical Conference visited Glasgow for the first time in 1876 Mr. Frazer was the president of the local Chemists' Association.

In 1858 a branch pharmacy was opened in Sauchiehall Street, and in 1870 another in Belmont Place. Subsequently a third branch was opened on the premises of the Grand Hotel at Charing Cross but that was soon transferred to the other side of the road. The Charing Cross branch was sold to Boots, Ltd., in the spring of 1958. At one time there were five pharmacies trading under the company's title.

WORLD TRADE

U.S. Economic Aid to Jugoslavia. — The United States has decided in principle to lend Jugoslavia \$22,500,000 for the construction of a fertiliser plant, following the cancellation of a Soviet loan for the same purpose.

Anglo-Polish Trade Talks on Quotas. — Negotiations between representatives of the Government of Poland and the Government of the United Kingdom have resulted in the drawing up of quota lists covering U.K. exports to Poland and Polish exports to the U.K. during 1959. They provide for increased exports of chemicals on both sides.

West German Chemical Output. — The value of West Germany's production of chemical products is expected to reach at least D.M. 18,000 millions during 1958, against D.M. 17,000 millions in 1957. Exports are estimated to amount to D.M. 4,600 millions, compared with 4,500 million marks last year. The development in the individual sections of the industry was not uniform but satisfactory results were achieved by producers of plastics, pharmaceutical goods and cosmetics.

French Anti-dumping Duties Decree. — The French Government has issued a decree in the *Journal Officiel* giving itself authority to levy countervailing or anti-dumping duties on imports which gravely harmed or threatened to harm an existing sector of national production or one being set up or planned. French sources say that the decree gave the authorities powers similar to those at present enjoyed by the British and American Governments to protect themselves against dumping. Those sources recalled that anti-dumping action had been taken against French chemicals in Britain and Australia.

TRADE NOTES

Denture Cleanser Pack Change.—The packs (small and large) of Oxydent denture cleanser have been changed by the makers, Scott & Bowne, Ltd., 50 Upper Brook Street, London, W.1, to polythene bottles.

Carriage Paid Terms.—From January 1, the carriage paid terms of Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham (previously £5) have been increased to £6, all goods, purchase tax excluded. The company point out that the increase is the first since March 1955, since when, additional carriage costs and postage have had to be borne.

Display Stands for Sunglasses.—One "major" or two "minor" display stands are being offered free with orders for 4 doz. Ultralaze sunglasses by the makers, E. R. Holloway, Ltd., Welwyn Garden City, Herts. Orders should be placed through wholesalers before February 1 to obtain bonus terms.

Golden Jubilee Year.—During 1959 Max Factor Hollywood and London (Sales), Ltd., 16 Old Bond Street, London, W.1, celebrate the fiftieth anniversary of the founding of the Max Factor organisation. The founder has not survived, but the business is still very much a family concern. Davis Factor, his eldest son, is chairman of the board, Max Factor, jun., is president; Louis Factor a vice-president; and Sidney a vice-president and the director of the company's foreign division.

Special Offers.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, give particulars of a special offer for Dequadin lozenges, Haliborange tablets, and Allenburys pastilles (see under Bonus Offers). All offers apply to direct orders from retail chemists, the orders being for complete dozens or in the case of Haliborange tablets for complete parcels. The Haliborange parcels are A: 12 doz. bottles of twenty-five; B: 8 doz. twenty-five and 1 doz. 100;

C: 4 doz. twenty-five and 2 doz. 100; D: 3 doz. bottles of 100.

Reduced Price for Customers.—Horlicks, Ltd., Slough, Bucks, are to carry out a sales campaign for Air-wick. They state elsewhere in this issue that for a limited period (until March 31) a special offer price to the consumer of 4s. 11d. instead of 5s. 11d. will obtain. So that chemists may start to sell at the new price immediately the company will cover the floor stock.

Transparent Cellulose Tape.—Thomas Waide & Sons, Ltd., Kirkstall Hill, Leeds, 5, can now supply pharmacists with Scotch brand cellulose tape from stock. Each roll is individually packed in a heat-sealed polythene bag to eliminate deterioration on storage, and the rolls are cartoned. The 72-yd. roll is supplied on a 3-in. diameter core and the 36-yd. roll on a 1-in. diameter core. "Dispensers," enabling any required length to be cut off using only one hand, are also available. The de-luxe desk "dispenser" (for 36-yd. x 1/2-in. rolls) costs 12s. 10d. and the de-luxe heavy-duty "dispenser" (for 72-yd. rolls up to 1 in. in width) costs 18s., both prices net.

Cosmetic Series Returns.—After an absence of nearly ten years the range of Houbigant preparations are to return to the British market. As announced on p. 6, Abbey Parfumerie Co., Ltd., 7 Oxford Circus Avenue, London, W.1, have been appointed sole distributors. The popular Quelques Fleurs perfume is accompanied by the more "sophisticated" Chantilly. Quelques Fleurs matching products include eau de toilette, soaps, talcs and face powder. Selected stockists are to be appointed in the near future and the re-introduction is being supported by a sustained spring advertising campaign. Abbey Parfumerie Co., Ltd., also announce its change of address as from January 1.

Policy on Price Maintenance.—Schweppes, Ltd., and the Rose Kia-Ora Sales Co., Ltd., Connaught Place, London, W.1, have issued a statement setting out their policy on price maintenance. After setting out the *pros* and *cons* of price maintenance and the difficulties that face manufacturers of branded goods in those circumstances, the company state that to meet the present situation half-measures are no longer appropriate. A brand should be price maintained or not, and if manufacturers prefer that their goods shall be sold at a fixed and publicised price, they should take the necessary steps to ensure that. The company therefore have decided to adopt the following policy: Suncrush and Kia-Ora fruit drinks to be sold at recommended prices, which it is not their intention to enforce in any way while Schweppes' and Rose's fruit drinks are to be sold at fixed retail prices, which are to be strictly ensured.

Calendar Offer to Animal Lovers.—From hundreds of photographic animal studies examined, Petfoods, Ltd., Melton Mowbray, Leics, have selected twelve which they have incorporated in a monthly calendar for 1959, avail-



able at a special reduced price to customers sending in to the company three Kit-E-Kat labels. The calendar measures 11 in. x 17 in. and the offer is being heavily advertised in all sections of the Press. It closes on January 12, 1959.

NEW PRODUCTS

Injector Pack.—The Distillers Company (Biochemicals), Ltd., Broadway, Wimbledon, London, S.W.10, announce the introduction of a 4-mil Distampin injector hospital pack containing Mix-tamycin solution (ready-prepared injection of streptomycin and dihydrostreptomycin sulphates).

New Baby Powder.—A new and improved Pears baby powder has been introduced by D. & W. Gibbs, Ltd., Hesketh House, Portman Square, London, W.1. The new powder contains Roccal antiseptic which is said to kill the bacteria that causes nappy rash. It



IN LINE WITH CURRENT TRENDS: Silmor Distributing Co., 16 Cosway Street, London, N.W.1, direct attention to the attractiveness of the packs in their André Philippe series. The No. 7A brilliantine hair spray is new, and the colours scarlet and oriental blue in which the pack is carried out are, they point out, in step with the swing-over in fashion from pastel shades to bolder colours.

is packed in pink containers for girls and blue for baby boys. Advertisements are to appear in selected magazines commencing January.

Added to Range.—Imperial Chemical Industries, Ltd. (pharmaceuticals division), Fulshaw Hall, Wilmslow, Cheshire, announce that they have now added Mezuran tablets to their range of medical products. Mezuran is a new combination of sulphadimidine (0.5 gm.) and a urinary analgesic, phenyl-azo - diaminopyridine hydrochloride (0.05 gm.). In the control of infections of the urinary tract and particularly those caused by *Bact. coli* and other organisms of the coli-typhoid group, the combination is claimed to provide prompt symptomatic relief from pain and frequency thus making the patient comfortable during treatment. Mezuran is issued in containers of twenty-five and 500 tablets.

Peripheral Vasodilator.—Bayer Products, Ltd., Neville House, Eden Street, Kingston - upon - Thames, announce the introduction of a new peripheral vasodilator drug, Hexopal (meso-inositol hexanicotinate), as 200-mgm. tablets. Primary indications include Raynaud's phenomenon, Raynaud's disease, acrocyanosis, chilblains, and Buerger's disease, and Hexopal has also been shown to be effective in migraine, intermittent claudication, night cramps, and the "restless legs" syndrome. The drug appears to be free from the side-effects usually associated with peripheral vasodilators, and it has been suggested that its action is specific upon abnormally contracted vessels. The dosage depends on response to treatment, but a commencing dose of two tablets three times a day is recommended. The extremely low incidence of side effects allows the dosage to be increased to as much as sixteen or twenty tablets daily where that is considered necessary. For night cramps and "restless legs," one to three tablets may be given at night. The pack is a container of forty.

Bonus Offers

BIOMETICA, LTD., 1 Elstree Way, Boreham Wood, Herts. Bu-To extra 5 per cent. discount on orders received in January.

HORLICKS, LTD., Slough, Bucks. Airwick mist, 10 per cent. display bonus. Until March 31.

W. & F. WALKER, LTD., Kirkby, Liverpool. Rotosan products. 10 per cent. on orders for 12 doz.; 7½ per cent. on 8 doz.; 3½ per cent. on 4 doz.

YARDLEY & CO., LTD., Carpenters Road, London, E.15. Talcum powders: Thirteen charged as twelve on orders of 6 doz. (or multiples thereof).

E. R. HOLLOWAY, LTD., Bessemer Road, Welwyn Garden City, Herts. Barnet sunglasses. Thirteen charged as twelve on orders for 4 doz. Ultraglaze through wholesalers before February 1.

BIOMETICA, LTD., Elstree Way, Boreham Wood, Herts. Buto rose-scented hair remover. Extra 5 per cent. During January 31.

RADIOL CHEMICALS, LTD., 78 Upper Richmond Road, London, S.W.15. Radian range and Radiol veterinary products. 10 per cent. on £3 order. In



IN TUBE: A squeeze gives enough Bristow's cream shampoo to use. The remainder is kept in perfect condition for next time. Makers are County Perfumery Co., Ltd., Honeypot Lane, Stanmore, Middlesex.

return for fourteen days' window display. Till January 31.

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2. Dequadin lozenges: 6 doz. or more charged 11/12ths of trade price; 12 doz. or over, 10/12ths. Allenburys pastilles: 6 doz. and over charged at 11/12ths of trade price. Haliborange tablets: Four complete parcels (details on this page) charged at 10/12ths trade price, direct orders from retail chemists. All offers terminate January 31.

HALEX, Highams Park, London, E.4. Tooth-brushes: Fifteen invoiced as twelve on orders of 1 gross; fourteen as twelve on 6 doz. and thirteen as twelve on 3 doz. Combs: Thirteen as twelve on orders of 3 doz. and over. An extra 5 per cent. discount on all combined

orders for 1 gross tooth-brushes and 1 gross combs. January 1-March 31. Further details elsewhere in this issue.

Calls for Tenders

THE Board of Trade has issued details concerning tenders sought by various overseas bodies, and an outline is given below of the requirements and closing dates. For fuller information readers should apply, quoting reference, to Export Services Branch, Lacon House, Theobald's Road, London, W.C.1.

Chemicals and pharmaceuticals and electro-medical apparatus. Central Trust of China, Purchasing Department, 68 Yen Ping Nan Road, Taipei, Taiwan, Formosa (E.S.B. 31211/58/I.C.A. January 16).

Photographic apparatus and requisites. Director General, Department of Supply and Development, Frere Road, Karachi. (E.S.B./30406/58/I.C.A. January 26).

Vitamin and other tablets. Chairman, Union Tender & Supplies Board, 291 Bosman Street, Pretoria, South Africa. (ESB 30893/58. January 15.)

Sodium silicofluoride, 75 tons. Messrs. Allen & Williams, 8 Clarges Street, Piccadilly, London, W.1 (for Singapore City Water Dept.). (ESB/31390/58, January 21.)

Sodium hydro sulphate, 15 tons. Managing Director, S/S Sugar Factories of Iran, Tehran. (E.S.B./31355/58, January 18.)

Tuberculostatics. The Chairman, Union Tender and Supplies Board, 291 Bosman Street, P.O. Box 371, Pretoria, South Africa. (E.S.B./31605)58, January 22.) Also Isoniazid, B.P. Powder, 1,200 kilos. Closing date: January 15.

PURCHASE-TAX-FREE DRUGS

New list of exempted medicines

THE Purchase Tax (No. 3) Order, 1958 (S.I. 1958, No. 2173), which came into operation on December 31, 1958, extends the list of medicinal substances exempt from tax under the Purchase Tax (No. 2) Order, 1958, which is revoked.

As on previous occasions some substances formerly classified by reference to their chemical names are now entered according to the name approved by the British Pharmacopoeia Commission. They include:—Beclamide, benzotropine, furazolidone, pempidine and clemizole.

The substances now free of purchase tax, together with the proprietary preparations affected (where known) and their manufacturers are given below:—

Under Head I

Lignocaine and salts thereof with cetrime, prepared for use in dental surgery (Xylestesin, Cottrel & Co.). This new entry is additional to the one referring to lignocaine and salts thereof, in Head III.

Under Head II

Arecoline hydrobromide (Pedigree worm tablets, John Bond (Veterinary) Co., Ltd.).

The entry for *p*-n-butylaminobenzoic (nona-ethyleneglycol methyl ether) ester has been extended to include "its octa homologue."

The previous entry for hormones and synthetic compounds with hormone activity is now extended to sub-

stances having carbon ring systems of androstanone (Anabolex, Lloyd Hamol. Androstalone, Pausandryl, Roussel Laboratories, Ltd.).

Warfarin sodium (Marevan, Evans Medical Supplies, Ltd.).

Under Head III

The entry for cortisone and analogous steroid hormones and esters thereof, has been extended to include mixtures containing dequalinium chloride.

The dextromethorphan entry now reads:—dextromethorphan and salts thereof, whether or not mixed with one or more of the following substances that is to say, ammonium chloride, extract of ipecacuanha and syrup of tolu. Dimethylaminoethoxyethyl phenothiazine-10-carboxylate, and salts thereof.

Methotriprazine, and salts thereof.

Thalidomide, and salts thereof (Distaval, Distaval Forte, Distillers Co. (Biochemicals), Ltd.).

The entry for antimicrobial substances has been extended so that they may be mixed with quaternary ammonium bactericides and salicyl alcohol. This extension includes cetyltrimethylammonium ethyl sulphate combined with tyrothricin which has been deleted from Head II. (Tyromist, British Schering, Ltd.).

5-Benzyl-1:2:3:4:tetrahydro-2-methyl-pyrid-[4,3-*b*]indole (Incidal, Levmedic, Ltd.)

[New list prices for most of the products are on p. 26.]

SHOPFITTING AND DISPLAY

Strip Prices for Shelving.—A range of shelf-strip prices are available from Packaging & Display, Ltd., 261 Kirkdale, London, S.E.26, according to customers' specifications.

Display Screens.—Ayrton, Saunders & Co., Ltd., Hanover Street, Liverpool, manufacture a range of chemists' fluorescent-type display screens measuring 9 x 18 in. They are supplied with a plastic foot and plated chains.

Controllable Thermal Storage Heaters.—Dulrae, Ltd., Griffin Lane, Aylesbury, are introducing two new Supastor controllable thermal storage heaters. They are rated at 1,000 and 2,000 watts, and incorporate controllable heat output, built-in control and overheat limit thermostat, built-on guard shelf and low operating temperatures on the external surfaces. The heaters store heat at night for output (controllable) the following day.

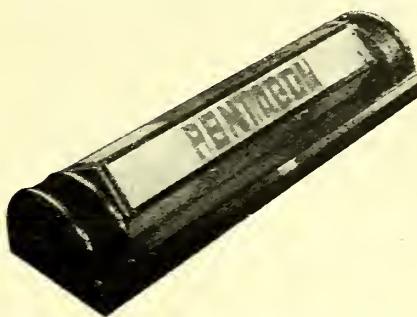
A New Cosmetics Display Stand.—Focal Displays, 217 Old Christchurch Road, Bournemouth, Hants, have added to their range of display pieces the "Triplane," claimed useful for the display of cosmetic or perfumery preparations. The unit, in black "crystal" and opal acrylic resin plastic, stands 11½ in. high. Six leaves are readily adjustable to any horizontal position and the top section is slotted to take a small showcard.

A Heated Underfelt.—The Thermalay electrically-heated carpet underfelt is claimed by the manufacturers (Thermalay, Ltd., Shelf Mills, Shelf, Yorks) an ideal form of room-heating for the office. Messrs. Thermalay are now introducing a new development of the heated underfelt principle: strip Thermalay heated-underfelts for use behind counters. The strips measuring 3 x 9 ft. and 4 x 12 ft., are claimed to warm the surface area of the rear of the counters, thereby eradicating cool draughts around the feet.

Portable Display Units.—Gifco, Ltd., 45 Scrutton Street, London, E.C.2, state that their "Dandy" display fittings are fully portable and may be stacked away when not in use. The units are obtainable in natural oak or dark mahogany colours. Any other colour may be obtained at a small extra cost. The units are 4 ft. wide, 5 ft. 7 in. high, and 2 ft. 6 in. deep at the base. The units are delivered free in the London area. It is claimed that the fittings may be dismantled or erected in five minutes.

A Luminous Ceiling.—A new luminous ceiling that provides efficient, shadow-free lighting and that has been designed for speedy installation in both new and existing buildings is being produced by Scaffolding (Gt. Britain), Ltd., Willow Lane, Mitcham, Surrey. The SGB "Glolite" ceiling, is claimed particularly suitable for installation in showrooms, shops, offices and factories. Channel sections of 5 x 1½-in. 16-gauge mild steel are held by rods hung from the structural ceiling. They support "infilling" panels that may be in continuous lengths or divided at suitable intervals.

An Advance in Display Signs.—Display Electrics, Ltd., 4 Earl Street, London, E.C.2, have recently introduced a new interchangeable and animated sign that they claim is more effective



than any other available. The Pentagon revolving sign (illustrated) may carry a message of up to seventy-five letters and is supplied with a 180-letter kit (including monetary and other figures and signs). The sign is internally illuminated by a 15-watt fluorescent tube for 200-250 volts A.C. operation and powered by a 2-watt motor that is guaranteed for twelve months. The sign is in heavy-duty chromium plate and crackle camera finish. Another addition to the company's range, the Fluoret, is claimed an alternative to neon window signs. The Fluoret comprises neon-type letters (set in holders) that clip on to any standard fluorescent tube. Each Fluoret letter is composed of the basic letter, a holder and a transparent colour screen. When assembled the letters lock together and, as with the colour screens, may be speedily interchanged. The kits are supplied in complete sets (with or without fluorescent tube) or any particular word or slogan may be individually ordered.

A Modernised Dispensary.—The dispensary of Birchall & Haydock (Chemists), Ltd., The Square, Wickham, Hants, has been modernised recently by the installation of the Spur shelving system. The pharmacy building, which dates back to the 1650s, has been used as a chemists' shop for eighty years and the dispensary is housed in what was originally the living accommodation. Maximum possible use is made of the available space by the erection of fourteen Spur uprights 3½ ft. high—at intervals on the irregularly sloping walls. The wooden storage shelves are supported on removable Spur can-

tilever brackets that fit into slots on the face of the uprights. The shelf heights may be altered by moving the brackets up or down as required. The installation, which was carried out by Mr. N. Haydock, M.P.S. (a director), has increased the shelf space by 50 per cent. and the movable brackets give a completely flexible layout to cope with the varying sizes of bottles in which the dispensing materials are received. Spur shelving is manufactured by Savage & Parsons, Ltd., Watford, Herts. Part of the dispensary is illustrated showing the new shelving.

For Floor-tile Designs.—A new geometrically derived shape of floor-tile, capable of a wide combination of designs, has been added to the range of Holmsund vinyl tiles. Produced in a range of over twenty colours the Nylett tiles, either on their own or in combination with standard square tiles, are claimed to offer unlimited possibilities for composing floors for business purposes. They have a non-porous surface that is impervious to grease, oils, acids and other chemicals, and require no waxing or polishing, and are easy to lay. The Nylett tiles are being marketed by Holmsund Flooring, Ltd., 26 Calthorpe Street, London, W.C.1.

A Pencil for Use on Film Packaging.—A new black-lead pencil for writing on transparent film and glazed surfaces is being marketed by the plastic packaging division of Gordon & Gotch, Ltd., 75 Farringdon Street, London, E.C.4. The Swan "All-Stabilo" pencil is claimed of particular value for pricing and identification of film packs. It writes clearly and densely on transparent wrappings, art and glossy paper, films, plastics, glass, metal, porcelain, stone, leather, foils or rubber. Waterproof, it is removed from paper with a pencil eraser and from other surfaces with a damp cloth.



Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Storage of Liquid Paraffin

SIR.—The British Pharmacopoeia, 1958, recommends that liquid paraffin should be stored so that it is protected from light, and in accordance with that recommendation supplies which we pre-packed, have been packed in amber bottles. From the number of comments that we have received from our customers, it seems that the B.P. recommendation has not been noted, and we think therefore, that it may be useful if an indication of that could be given in your journal.

A. HIRST,
THORNTON & ROSS, LTD.,
Huddersfield

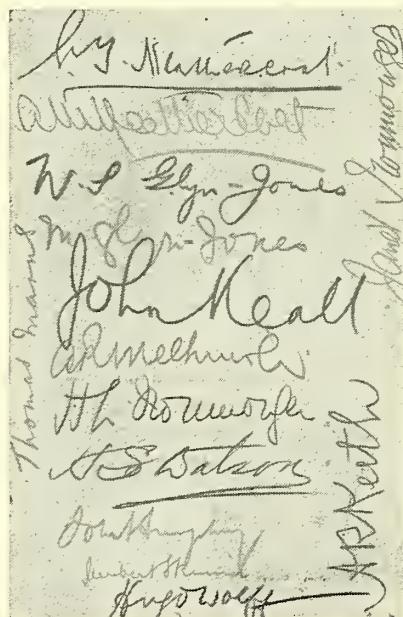
Colour Photography

SIR.—I have read with interest the account in your issue of December 13, 1958, of a visit to the Kodak colour photography plant at Hemel Hempstead. I feel, however, that an entirely wrong impression of colour photography is given in the final paragraph. So far from bright sunshine being essential for good daytime colour photography, excellent results may be obtained on dullish days, provided the necessary correction for light is made. That fact is surely one of the best selling points for colour photography in this country, where bright sunshine is so infrequent. In my own collection of transparencies, those taken in the absence of bright sunlight are among the best.

DONALD S. ROGERS,
Wollaton, Nottingham

Autographs on a Banquet Menu

SIR.—Clearing up some old papers I came across the enclosed menu card of the original Ealing and District Pharmacists' Association, which in those days was very alive. Several of



the men who autographed the back of my copy laid the foundation of their branches and were in the limelight in those fighting and happy days. Most are gone and I feel I am the only survivor (eighty) of those cheerful, hard-working and independent pharmacists.

H. L. IRONMONGER,
Chiswick, W.4

Monkey Business

SIR.—A few days ago a woman customer came into my shop in a very excited state and bordering on collapse and said "Oh! Mr. Stein, can you help me?" I said "Yes. What is the trouble?" She said "My monkey has eaten at least ten Panadol tablets."

H. STEIN,
Hull

Hall Dispensers' Association

SIR.—With the coming of the National Health Service large numbers of doctors no longer needed Apothecaries' Hall dispensers in general practice, and more and more qualified dispensers have found their way into the hospital service, only to find a progressive campaign in action to weaken the position and lower the status of the Apothecaries' Hall dispensers. The pharmacists have sought to replace Apothecaries' Hall dispensers in positions of responsibility by pharmacists, wherever possible. Furthermore, the pharmacists have prevailed upon the Society of Apothecaries to introduce a new system of training: a two-year practical apprenticeship in the hospital pharmacy. No specific standard of education is required, no academic training, and chemistry is no longer an examination subject, or even in the curriculum. It is generally accepted to be a much lower standard of training, and is designed to produce nothing more than a pair of skilled hands, a technician. It is even more disconcerting to see in print that the Society of Apothecaries, despite the fact that they have no jurisdiction over the holders of their certificate, have given an undertaking to the pharmacists that "holders of their certificate will work as assistants to and under the supervision of pharmacists." The syllabus has been compiled, and examination is to be undertaken, by pharmacists. Whilst accepting in theory the view of the pharmacists that ideally all hospital pharmacies should be under the "direct supervision" of a pharmacist, we know from experience that it is not possible to find sufficient pharmacists to fill these posts. Often they are being filled very adequately by Apothecaries' Hall dispensers, capable of carrying this added responsibility, and doing the work to the entire satisfaction of the medical and administrative staffs. We maintain that they should be allowed to continue to fill these posts, and that as posts become vacant, if it is not possible to fill the vacancies with pharmacists, then suitable, experienced, qualified dispensers should be appointed.

Naturally we are concerned with our own most unsatisfactory position, but we also seek to ensure that those coming after us shall have a worthwhile career, with suitable status. There is a need in the hospital service for qualified dispensers to fill the very wide gap between the pharmacists, who consider themselves required to act as advisers to the medical profession, and the unskilled trainees, or even the technicians who will be produced by the new system of training. Here we believe the Apothecaries' Hall dispensers take their place. There is to be a conference in January, under the auspices of the Ministry of Health, of the various pharmaceutical bodies, together with the Society of Apothecaries, and the Apothecaries' Hall Dispensers' Association, to discuss the quality and quantity of training required for assistants in the hospital pharmacy. The Association is very anxious to ensure that a suitably high standard of syllabus, training and examination, certainly no lower than that of the previous syllabus, shall be decided upon, in order to ensure the flow of suitably trained personnel to replace its members in the pharmaceutical service in hospitals and elsewhere. The Association are anxious that the Society of Apothecaries should remain the examining body, and that suitable recognition in all respects should be granted for the Certificate of these qualified dispensers. To this end we appeal to all doctors and pharmacists who have experienced the quality of the loyal and efficient service of the Apothecaries' Hall dispensers to support this effort by word and deed.

E. LINTON,
Honorary Secretary,
Apothecaries' Hall Dispensers' Association.

DID YOU READ IT?

CORRECT transcription of the prescription reproduced in the C. & D., December 20, 1958, p. 660, was:

R. Pulv. aspirin gr. ii } 14
Phenobarbiton. gr. 4 } 14

B.D.

Linct. codein. 3ii
Syr. simplex 3ii
3i t.d.s.

PHARMACISTS' POSTAL CHESS



SOLUTIONS to recent chess problems (C. & D., December 20, 1958, page 658).
Puzzle:—Black's moves are: 1. P-K3 or 4, 2. Q-B3, 3. Q x Pch., 4. B-K2 mate. Two move problem: 1. Q-Kt4ch! Now you should enjoy working out the mates, not forgetting, of course, the variation 1 . . . P-B4! Would a player have seen mate in two here?

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* REGD. TRADEMARK

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ESTABLISHED 1859

Published weekly at

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Glancing Behind

THE year 1958 has not dealt kindly with pharmacy or pharmacists. The cry of "expensive" drugs continued with much comment which displayed ignorance of the solid achievement of pharmaceutical progress in improving both the health of the nation and through its export trade, the country's wealth. The decision of the Restrictive Practices Tribunal was a disappointment to the industry, and there is little doubt that the campaign against the prescribing of proprietary medicines in the lay Press and political circles did not help to provide an amenable atmosphere for the pharmacist's case.

It is surprising that the Treasury and the Ministry of Health appear to fail to appreciate the increasingly important part that proprietary drugs play in world markets, and the damage to British exports which may be done by continued denigration of British branded medicines. All countries are becoming increasingly proprietary-minded, and in most, branded drugs account for 80-90 per cent. of all prescriptions. In Great Britain it has reached only 50 per cent., though the ratio is bound to rise despite official pressure on doctors.

The need is becoming imperative for a more energetic campaign by the industry to publicise its very real achievements, and while we are glad to recognise that several firms have recently taken steps to that end, more continued and concerted efforts by others are called for. The Association of British Pharmaceutical Industry, the National Pharmaceutical Union and the Pharmaceutical Society must all realise they have a common interest in this matter.

We would again suggest that all sections of the profession could benefit if closer liaison existed between the several organisations which represent pharmacy, and that might well be the guiding principle for all pharmacists during 1959.

Overseas Trade in November 1958

THE monthly export value of drugs, medicines and medicinal preparations from the United Kingdom during November 1958 at £3.09 millions was about the monthly average rate for 1958. Most of the items for which separate statistics are published (see table), when compared with the previous month's figures were also similar though penicillin salts dipped sharply. Aspirin and sulphonamides in November were at their highest since August, whilst ointments and liniments had their most successful month for nearly two years.

Australia was the best single market for United Kingdom prepared medicines taking goods to the value of £229,215. Close behind was Nigeria with £214,156 bringing the colonies' total to £1.89 millions for the first eleven months of 1958. Exports of products in the same class to the United States and Canada were well maintained in November at £101,685 and £104,173 respectively. Sales to the Common Market countries however were disappointing compared with the corresponding month in 1957; Belgium, on the other hand, nearly doubled her purchases.

November imports of prepared medicines were at a high level, and were only exceeded by those in March and June 1958. Their total at £898,000 compares with a monthly average of £805,000.

The recent improvement in United Kingdom exports as a whole was strongly maintained in November, being some £24 millions higher than in October. That rise combined with a seasonal fall in imports resulted in the country's visible trade deficit being reduced from £49 millions in October to only £9.1 in November. Apart from two months in which trade was severely affected by dock strikes, that was the smallest monthly deficit since 1946. Chemicals as a whole rose by 2 per cent. in the October-November period compared with the corresponding month in 1957.

| EXPORTS | | | | | | VALUE |
|--|-----|-----|-----|-----|-----|-------------|
| Drugs, medicines, medicinal preparations (total) ... | ... | ... | ... | ... | ... | £ 3,097,413 |
| Vitamins ... | ... | ... | ... | ... | ... | 178,889 |
| Penicillin salts ... | ... | ... | ... | ... | ... | 69,515 |
| Penicillin injections ... | ... | ... | ... | ... | ... | 52,684 |
| Penicillin tablets, ointments, etc. ... | ... | ... | ... | ... | ... | 46,341 |
| Antibiotics other than penicillin ... | ... | ... | ... | ... | ... | 364,543 |
| Quinine ... | ... | ... | ... | ... | ... | 11,211 |
| Alkaloids, excluding quinine ... | ... | ... | ... | ... | ... | 95,612 |
| Aspirin ... | ... | ... | ... | ... | ... | 86,916 |
| Antihistamines ... | ... | ... | ... | ... | ... | 42,989 |
| Antipaludics ... | ... | ... | ... | ... | ... | 74,410 |
| Barbiturates ... | ... | ... | ... | ... | ... | 46,580 |
| Liver extracts ... | ... | ... | ... | ... | ... | 12,665 |
| Ointments and liniments ... | ... | ... | ... | ... | ... | 137,240 |
| Insulin ... | ... | ... | ... | ... | ... | 23,581 |
| Sulphonamides ... | ... | ... | ... | ... | ... | 147,218 |
| Proprietary medicines ... | ... | ... | ... | ... | ... | 955,537 |
| Other medicines, unclassified ... | ... | ... | ... | ... | ... | 714,559 |
| Glycerin ... | ... | ... | ... | ... | ... | 55,989 |
| Acetone ... | ... | ... | ... | ... | ... | 32,397 |
| Citric acid ... | ... | ... | ... | ... | ... | 43,250 |
| Salicylates ... | ... | ... | ... | ... | ... | 18,676 |
| Perfumery and toilet preparations | | | | | | |
| Lipstick, face powder, etc. ... | ... | ... | ... | ... | ... | 284,428 |
| Dentifrices ... | ... | ... | ... | ... | ... | 195,814 |
| Toilet soaps ... | ... | ... | ... | ... | ... | 273,304 |
| Synthetic detergents ... | ... | ... | ... | ... | ... | 545,300 |
| IMPORTS | | | | | | £ |
| Vitamins ... | ... | ... | ... | ... | ... | 30,826 |
| Antibiotics ... | ... | ... | ... | ... | ... | 30,183 |
| Alkaloids ... | ... | ... | ... | ... | ... | 13,484 |
| Proprietary medicines ... | ... | ... | ... | ... | ... | 118,267 |
| Unclassified medicines ... | ... | ... | ... | ... | ... | 705,588 |
| Borax ... | ... | ... | ... | ... | ... | 84,595 |
| Iodine ... | ... | ... | ... | ... | ... | 26,343 |
| Menthol ... | ... | ... | ... | ... | ... | 25,538 |
| Essential oils | | | | | | |
| Bergamot ... | ... | ... | ... | ... | ... | 11,355 |
| Citronella ... | ... | ... | ... | ... | ... | 11,524 |
| Clove ... | ... | ... | ... | ... | ... | 3,914 |
| Geranium ... | ... | ... | ... | ... | ... | 12,220 |
| Lavender ... | ... | ... | ... | ... | ... | 17,043 |
| Lemon ... | ... | ... | ... | ... | ... | 11,068 |
| Orange ... | ... | ... | ... | ... | ... | 7,188 |
| Peppermint ... | ... | ... | ... | ... | ... | 49,359 |
| Unclassified ... | ... | ... | ... | ... | ... | 232,893 |



At left: The old premises; at right: The new façade, which takes in part of a throughway.

A PLANNED ALTERATION PAYS DIVIDENDS

Turnover of remodelled pharmacy at Pontefract increases by more than one-quarter since the change.

IMMEDIATE result of modernisation of the Ropergate, Pontefract, pharmacy of D. Royce, Ltd., has been an increase of 25-30 per cent. in turnover. When that is set against the spectacular expansion that the business has undergone since it was taken over by Mr. D. Royce, M.P.S., in 1946, it is seen to be a more than worth-while commercial venture.

Preparation of plans by William Mason & Son, Ltd., Gelderd Road, Leeds, 12, for the alterations to the premises, began in late 1956 and continued until well into 1957. Eventually all the details were settled, and it was agreed that work should start in February 1958. It was completed at the end of October.

A "New Broom"

The founder of the company (Mr. Royce) took over the business in August 1946. Negotiations were carried on while he was still in the Forces, and he moved into the business immediately after his demobilisation. The previous proprietor, who was then seventy-four, had been there for about forty years, and the business was in a rather rundown condition and poorly stocked. During the first week Mr. Royce's takings amounted only to £37 10s., and only one prescription was handed in for dispensing. There was competition from two other private pharmacies and three branches of multiple companies. Mr. Royce gave a great deal of attention to ways in which he could increase the turnover of the business. He decided that photographic, veterinary and horticultural needs, and wines and spirits were all well catered for, but that no one in the vicinity appeared to have specialised in sole agencies for cosmetics and perfumery business. Accordingly he wrote to all the cosmetic houses he could think of. Although at that time those goods were still on quota, he found that a number of manufacturers were prepared to allocate to him a small quota, which was gradually increased through the good offices of the many friends he made among representatives.

Business improved continuously, and over a period of about five years he secured a number of sole agencies for the area, including Peggy Sage, Chanel and Worth and good sales (but not sole agencies) of Revlon, Coty and Yardley. The dispensing and "ethical" pharmaceuticals side of the business also increased with, of course, a sharp upsurge in dispensing at the inception of the National Health Service. Five years after Mr. Royce had taken over, the turnover of the business was about £10,000 per annum, and he was employing three assistants. (At first there had been only one—the daughter of the former proprietor—who stayed with him for about three years.)

The next period of five years was one of consolidation, and more cosmetic agencies, including Elizabeth Arden and Lentheric, were acquired. Business in chemists' sundries and dispensing also improved.

In 1956 Mr. Royce decided that, with the old-fashioned premises and the limited space they provided, he could



Top: A view of the shop interior looking towards the entrance; below: The interior viewed from just inside the entrance.

not hope to do justice to the many agency lines he handled. Turnover had increased to about £16,000-£17,000, and he was by that time employing six assistants. Unfortunately, he had negotiated a lease for fourteen years originally, and there was no renewal option clause in the contract. With only four years to run, and little possibility, as he found, of acquiring new and more commodious premises elsewhere, he had to consider what action to take. Eventually he decided to purchase the property and site he was occupying, if the owners were agreeable, as they proved to be. He then formed a limited company: D. Royce, Ltd. Only then, at the end of 1956, did he approach the shopfitters, asking them to prepare and submit ideas and plans for altering the premises. That preparatory work continued until too late in 1957 to begin work, and a start was postponed until February 1958.

During February, March and April working conditions were extremely difficult, with the rear of the building missing and, as Mr. Royce describes it, "only an antediluvian radiator and a paraffin burner for heat." During the summer months he had to make a temporary dispensary upstairs "and at one stage (when we lost the staircase) we were dependent on a ladder and a box on the end of a piece of rope"! However, during the whole difficult operation of rebuilding, refitting and at the same time keeping open shop, the staff remained cheerful "and put in a great deal of hard work."

Completely Rebuilt

The alterations consisted, in effect, of the demolition, in stages (to allow business to continue) of the whole of the existing two-story structure and completely rebuilding it. A wide side entrance has been incorporated into the shop leaving only a narrow unobtrusive side entrance-passage. A cellar beneath the original shop was filled in and a new basement was excavated at the rear. At the rear of the shop is a dispensary big enough to accommodate three people working in comfort. All the bench tops and fittings are faced in white plastic, and in addition to the usual dispensary equipment there is a writing desk. A bottle rack, made to specification, is sufficiently large to ensure that there is always to hand a sufficient number of all bottles.

Behind the dispensary is an unpacking room up to which runs a ramp to facilitate unloading of vehicles. Next to the unpacking room are toilets and a staff room. Close by the dispensary, down a short passage, is Mr. Royce's office. The new basement under the rear portion of the premises has a big entrance for the delivery of large quantities of bottles and bulky stock.

An additional story over the front of the shop is fitted as a stock-room with wall fixtures, and a "staggered" arrangement of "island" storage racks.

In the shop itself all display units are in mahogany and it is a feature of the shop that there are no standard fittings or units—all were made to special specification. Every working surface, indeed nearly every exposed surface, is covered in plastic the colour of which blends so well with the mahogany fittings, etc., that few people realise it. Storage in the shop is unobtrusive but effective. There are many drawers, all of which are racked back and front with adjustable dividers. Three roof lights were included in the design of the new premises—two in the shop and one in the dispensary. They are so effective that, in the dispensary, no additional lighting is required during the day.

As a contrast to the radiator and paraffin burner, the premises are now effectively warmed by six night storage heaters.

Mr. Royce expressed surprise that Messrs. William Mason were able to include fittings, etc., of such high quality at such a reasonable price as he was charged. He has the greatest admiration for their work.

There are now eight employees of the company, and the medicinal side has increased in proportion to the expansion in cosmetics. Mr. Royce is doing a lot of his own

packing and has just ordered a large new series of speciality and counter-line labels and a gumming and labelling machine. He has a separate cosmetic and perfumery department under the supervision of Mrs. Muriel O'Connor who, having attended several courses organised by London cosmetic houses, is well qualified to give advice, and does all her own buying and has her own staff of two assistants. Within the pharmacy are other sections (medicinal, dispensing, surgical, brushware and sundries, and baby requisites).

NEW BOOKS

Chemistry for Schools

A. C. CAVELL, M.A., B.Sc. *Macmillan & Co., Ltd.*, St. Martin's Street, London, W.C.2. 7½ x 5 in. Pp. 463. 12s. 6d.

THE author has brought the teaching of chemistry in schools into line with modern thought. Atomic weights are given in terms of the oxygen standard; the subject's influence in other sciences, and its daily applications are well brought out. The author commendably deals, on the biological side, with human and plant nutrition. Elementary physical chemistry and radioactivity are other aspects touched upon.

Chemical Publications: Their Nature and Use

M. G. MELLON, PH.D., SC.D. *McGraw-Hill Book Co., Ltd.*, 95 Farringdon Street, London, E.C.4. 9 x 6 in. Pp. 327. 54s. 6d.

ALTHOUGH much of this work refers to American institutions, it does provide the student with a good introduction to the extensive literature of chemistry and chemical technology. Included are a number of suggested "library problems." Designed to help to familiarise a student with various sources of information it gives him practical experience in the research into literature. Unfortunately, however, many of the notes indicating where the answers to the problems are likely to be found must be amended before they can be usefully given to students outside the United States.

Poisoning by Drugs and Chemicals: An index of Toxic Effects and Their Treatment

PETER COOPER, F.P.S. *Alchemist Publications*, 25 Oxford Street, London, W.1. 6½ x 4½ in. Pp. 209. 25s.

THIS book achieves its object to provide a ready-reference guide to the toxicology of the commoner drugs and chemicals. Over 350 monographs have been arranged alphabetically under the non-proprietary name of the substance concerned. Where applicable under the subtitle "Synonym," additional open and proprietary names are given. Other information is provided under the headings—action, absorption and excretion, toxic effects, suggested treatment and aids to identification. Spot checking of a number of monographs revealed no errors and generally the arrangement is entirely satisfactory. Like some other similar books on toxicology it can be criticised because it does not provide a chapter on recognition of the poisoning by symptoms. It is not unusual, in the very earliest stages of treatment, for the cause of the poisoning to be unknown, and some kind of classification by symptoms—however broad—would have been helpful. However, that omission should not be allowed to detract from the very valuable information which the compiler has gathered together.

A PHARMACIST'S ANTHOLOGY

IF HEALTH YE SEEKE

From Spenser's *Faerie Queene*

IF therefore health ye seeke, observe this one.
First learne your outward sences to refraine
From things, that stirre vp fraile affection;
Your eies, your eares, your tongue, your talk restraine
From that they must affect, and in due termes containe.
For from those outward sences ill affected,
The seede of all this evill first doth spring,
Which at the first before it had infected,
Mote easie be supprest with little thing:
But being growen strong, it forth doth bring
Sorrow, and anguish, and impatient paine
In th' inner parts, and lastly scattering
Contagious poysen close through every vaine,
It never rests, till it have wrought his fallane.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 25.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 3, 1959

S OFRAMYCIN nebuliser

MANUFACTURER: Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10.

DESCRIPTION: A nasal spray solution containing Soframycin, 12.5 mgm.; gramicidin, 50 microgm., and phenylephrine hydrochloride, 2.5 mgm., in 1 mil of buffered isotonic saline.

INDICATIONS: Acute coryza, rhinitis, nasopharyngitis, sinusitis.

METHOD OF USE: Each nostril is sprayed 4-5 times every 2-3 hours.

HOW SUPPLIED: In plastic bottle equipped with a spray nozzle and containing 15 mils of spray solution.

FIRST ISSUED: November 1958.

SUPPLY RESTRICTIONS: Therapeutic Substances Act, Part II.

NOTES: The spray solution should not be used for children under two years of age.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 3, 1959

C OLTRONYL

MANUFACTURER: Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10.

DESCRIPTION: An injection solution containing 4 mgm. of thiocolchicoside in each 2 mils. Thiocolchicoside, a glucoside synthesised from 2-demethyl thiocolchicine, has long-acting muscle-relaxant properties.

INDICATIONS: Chronic neurological conditions associated with muscle hypertonia. Acute rheumatic conditions in which pain arises from muscle spasm. Surgical and gynaecological conditions complicated by muscle spasm.

DOSAGE: *Intravenous*: 4 mgm. daily for 3-4 days. The dosage may, subject to clinical factors, be increased to 12 mgm. but should always be started at 4 mgm. *Intramuscular*: 8 mgm. daily, or sufficient for maintenance therapy.

HOW SUPPLIED: In box of six 2-mil ampoules.

FIRST ISSUED: November 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 3, 1959

T YMPALGIN ear drops

MANUFACTURER: Silten, Ltd., Silten House, Hatfield, Herts.

DESCRIPTION: Ear drops containing phenylmercuric nitrate 0.1 gm.; benzocaine, 1.5 gm.; ephedrine, 1.0 gm.; phenazone, 5.0 gm.; chlorbutol, 1.0 gm.; pot. hydroxyquinoline sulph., 0.1 gm.; propylene glycol, to 100 mils.

INDICATIONS: Treatment of otitis media and externa.

METHOD OF USE: 5 drops instilled four times a day.

HOW PACKED: In $\frac{1}{2}$ -oz. and $\frac{1}{4}$ -oz. bottles.

FIRST ISSUED: October 1958.

SUPPLY RESTRICTIONS: P.1.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 3, 1959

V ESPRAL

MANUFACTURER: E. R. Squibb & Sons, Ltd., 17 Old Bond Street, London, W.1.

DESCRIPTION: Tablets each containing 10 mgm. or 25 mgm. of triflupromazine (10-(3-dimethylaminopropyl)-2-(trifluoromethyl) phenothiazine hydrochloride).

INDICATIONS: Schizophrenia, manic states and psychoses associated with organic brain disease. Prevention of nausea and vomiting; management of alcohol-withdrawal symptoms.

DOSAGE: *Adults*: For psychic stabilization 25 mgm. initially three times a day, with subsequent adjustment. *Children and geriatric cases*: Initially 10 mgm. three times a day, again with subsequent adjustment. Anti-emetic dose: 20-30 mgm. daily.

HOW SUPPLIED: Bottles of 100, 500 and 1,000 10 mgm. and 25 mgm. tablets.

REFERENCES: *J. Mental Sci.*, 1958, 104, 870. *J. Nerv. Ment. Dis.*, 1958, 127, 17.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 3, 1959

N EZ

MANUFACTURER: Rybar Laboratories, Ltd., Tankerton, Kent.

DESCRIPTION: A nasal drop and spray solution containing chlorbutol, 0.5 per cent. w/v; naphazoline hydrochloride, 0.05 per cent. w/v; phenylephrine hydrochloride, 0.25 per cent. w/v; sodium chloride, 0.90 per cent. w/v.

INDICATIONS: Rhinitis; sinusitis; nasal catarrh.

DOSAGE: A few drops in each nostril not more frequently than once every four hours.

HOW SUPPLIED: In dropper bottle with rubber teat and in plastic spray bottle (each containing $\frac{1}{2}$ fl. oz. of solution).

FIRST ISSUED: September 1958.

SUPPLY RESTRICTIONS: P.1.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 3, 1959

J U V E L

MANUFACTURER: Vitamins, Ltd., Upper Mall, London, W.6.

DESCRIPTION: Tablets, each containing: Vitamin A, 5,000 i.u.; vitamin D₂, 500 i.u.; aneurine hydrochloride, 2.5 mgm.; riboflavin, 2.5 mgm.; pyridoxine, 2.5 mgm.; nicotinamide, 50 mgm.; tocopherol acetate, 10 mgm.; ascorbic acid, 50 mgm.

INDICATIONS: Failing health not related to organic cause, especially in ageing patients whose nutrition may be faulty.

DOSAGE: One tablet daily.

HOW SUPPLIED: In containers of 100 and 500 tablets.

FIRST ISSUED: November 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 3, 1959

E RYTHROCI N I.M.

MANUFACTURER: Abbott Laboratories, Ltd., 8 Baker Street, London, W.1.

DESCRIPTION: A new erythromycin compound dissolved in polyethylene glycol and prepared specifically for intramuscular use. Compared with other derivatives of erythromycin the ethyl succinate is relatively non-irritating. It is stable at room temperature and is supplied ready for injection. Each mil contains erythromycin ethyl succinate equivalent to 50 mgm. of erythrocine base.

INDICATIONS: For infections caused by organisms sensitive to erythromycin—including most of the Gram-positive cocci, and in general when the oral route is impracticable.

DOSAGE: *Adults*: Infections of average severity, 100 mgm. every 6 hours. For more severe infections the same dosage may be employed every 4 hours. *Children*: Dosage reduced in proportion to the age and weight.

HOW SUPPLIED: In 2-mil ampoule and 10-mil multiple-dose vials.

FIRST ISSUED: November 1958.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 3, 1959

P HENAGLATE

MANUFACTURER: Aspro-Nicholas, Ltd. (Ethical Pharmaceutical Division, Bath Road, Slough, Bucks.

DESCRIPTION: A quick-acting medium duration hypnotic in the form of capsules, each containing: quinalbarbitone sodium, 50 mgm.; phenobarbitone, 25 mgm.; bemigride, 7.5 mgm.

DOSAGE: One or more capsules at the discretion of the physician.

HOW SUPPLIED: In bottle of thirty capsules.

FIRST ISSUED: September 1958.

SUPPLY RESTRICTIONS: P.1, S.1, S.4.

NOTES: Contra-indicated in epilepsy or patients with suspected epileptic tendencies. The margin of safety is enhanced by the presence of bemigride.

REFERENCES: *Brit. med. J.*, 1957, 2, 1509. *idem*, 1957, 2, 1514.

AN INTERNATIONAL CODE OF ETHICS?

Proposals put up for consideration by national pharmaceutical organisations

MR. Frank Arnal introduced proposals for an International Code of ethics or code of "deontology" at the International Pharmaceutical Federation Congress in Brussels (see *C. & D.*, September 27, 1958, p. 333 and September 20, p. 291). It was drawn up to cover the Federation and all persons actively engaged in pharmacy in an attempt to ensure "that all international professional duties are respected in order to safeguard all traditions of Honour and Dignity and to ensure the Moral Integrity and Independence of the Pharmaceutical Profession." The Congress accepted the Code and the International Pharmaceutical Federation will bring it to the notice of the various national pharmaceutical societies. Details are:—

Preamble

The International Pharmaceutical Federation:

1. which brings together all those who exercise our Profession, affirms, solemnly that pharmacists have a social mission to fulfil and an undoubted public service to carry out, which cannot be subordinated to the ideas of individuals.
2. has assumed the mission of assuring internationally respect for every piece of professional work, with the aim of maintaining traditions of Honour and of Dignity and at the same time assuring the professional Morality and the Independence of pharmacy.
3. requires that in the service of the public and for the accomplishment of his duties each Pharmacist stands as a witness for the whole Profession.
4. maintains that the Code of Professional Conduct should base its requirements upon an intimate feeling of unity within the pharmaceutical family, that is to say upon the acceptance of a common rule of conduct arising from the performance of like duties. The Code embraces rules which naturally impose themselves upon the pharmacist and which are a guarantee, upon a supranational level, that he has those qualities possessed by everyone everywhere who has dedicated himself to the protection and the defence of health.

PART I

General obligations upon pharmacists

Chapter 1. General considerations

Art. 1.—The pharmacist should abstain from any act or conduct of a nature which could lower the status of the profession, even though it be outside the scope of his professional work.

Art. 2.—The pharmacist should not carry on concurrently with the practice of pharmacy any activity incompatible with professional dignity.

Chapter II. The pharmacist's participation in the protection of health.

Art. 3.—The pharmacist is at the service of the public. He should show the same attention to every patient. Whatever be his duties or whatever special work he may be engaged on, save in an exceptional case where he is prevented by circumstances beyond his control, the pharmacist should, within the limits of his knowledge, assist an injured person who is in immediate danger if medical care is not available for him.

Art. 4.—In exceptional circumstances (epidemics, public calamities, etc.) the pharmacist should not leave his post until he has the permission of the competent authority.

Art. 5.—The pharmacist should not encourage, whether by advice or by act,

practices that are contrary to good morals.

Art. 6.—Professional secrecy is incumbent upon all pharmacists, subject only to such exceptions as may be established by the law of their country.

Art. 7.—To assure observance of professional secrecy, the pharmacist will refrain from discussing in public, particularly in his pharmacy, questions relative to the ailments of his customers and to their treatment. In any professional or research papers he will avoid any reference of a kind which might compromise this professional secrecy.

Chapter III. The responsibility and independence of pharmacists.

Art. 8.—The pharmacist has the responsibility for the preparation and the handing out of medicaments and supervises closely the carrying out of any act which he does not do himself.

Art. 9.—Every pharmacy should display clearly the name or names of the pharmacists who own it or, if it is a pharmacy owned by a company, the name of the responsible managing pharmacist.

Art. 10.—The assistant pharmacist is a pharmacist who works alongside the pharmacist who is the owner of a pharmaceutical business.

Art. 11.—Whether he is owner, manager, assistant or locum, a pharmacist should never commit himself to any arrangements which might lead to the abandonment, even partially, of his technical independence in the exercise of his professional duties.

Chapter IV. The upkeep of pharmaceutical establishments.

Art. 12.—The preparation and the delivery of medicines, and more generally all pharmaceutical acts, should be carried out *secundum artem*.

Art. 13.—Pharmaceutical establishments should be established in places well adapted to the work which is to be done there and properly equipped and maintained.

Art. 14.—Every product which is found in a pharmaceutical establishment should be identifiable by its name, which should appear on a label appropriately fixed to it. This label should where necessary conform to official requirements.

PART II

Prohibition of certain procedures

Chapter 1. Publicity

Art. 15.—Pharmacists should abstain from seeking customers by ways and means contrary to the dignity of their profession, even when these ways and means are not expressly prohibited by current legislation.

Art. 16.—In the exercise of his profession the pharmacist should add to his name only official titles (his degrees, hospital and scientific appointments held by him and so on).

Art. 17.—With the exception or requirements imposed by law in each country, the only indication which pharmacists should allow to appear on their business cards, letter headings, business papers or diaries are:

1. Information which facilitates their relations with their clients or suppliers, such as names, first names, addresses, telephone numbers, days and hours of opening, numbers of postal cheque accounts;

2. A statement of the various activities which they carry out;

3. Titles and functions provided for in Art. 16:

4. Distinctions that are recognised and admitted by each country.

Art. 18.—Any publicity directed to the medical and pharmaceutical professions should be accurate and fair.

Chapter II. Unfair competition.

Art. 19.—Freedom of choice of pharmacists is a right of which a sick person

can in no circumstances be deprived. A pharmacist is firmly prohibited from making any breach in this principle by directly or indirectly offering to anyone advantages which the law does not expressly provide for them.

Art. 20.—In particular, there is a prohibition upon anyone who is providing any form of collective medico-pharmaceutical service replacing one product by another, even when the substitute has an equivalent or superior value.

Art. 21.—Pharmacists should refuse to recognise any use of the pharmaceutical qualifications as a "cover."

Art. 22.—Pharmacists holding elected or administrative offices must not use them to build up the numbers of their customers.

Chapter III. Prohibition of certain understandings or agreements.

Art. 23.—It is declared to be contrary to professional ethics to participate in any agreement or to undertake any act which involves running a risk with a person's health; and also to share with a third party professional remuneration. In particular the following are prohibited:

1. Any paying or receiving of money between practitioners in the health services which is not explicitly authorised.

2. Payments and acceptances of commissions between pharmacists and any other people.

3. Any unlawful rebate in money or in kind upon the price of a product or of a service.

4. Any act of a kind which will procure an illegal advantage for a customer.

5. Any facility accorded to someone who is engaged in the illegal practice of pharmacy.

Art. 24.—Any secret understandings between pharmacists and doctors, medical auxiliaries or anyone else is forbidden. By definition, a secret understanding is an understanding between two or more persons to obtain benefits at the expense of the patient or of third persons.

Art. 25.—There are excluded from understandings and agreements which are prohibited between pharmacists and members of the medical profession those which relate to payment for copyrights or patents.

Art. 26.—Pharmacists can receive customary fees as payment for contributions made by them to the study or development of medicines or of apparatus so long as they have been fixed or advised by someone other than themselves.

PART III

Rules to be observed in relations with the public.

Art. 27.—Whenever it is necessary, the pharmacist should encourage his customers to consult a doctor.

Art. 28.—Pharmacists must not alter a prescription except with the express and previous agreement of the prescriber.

Art. 29.—They should reply circumspectly to any questions put to them by patients or by their representatives aimed at discovering the nature of the illness being treated or the value of the curative measures prescribed or applied.

Art. 30.—They must refrain from forming a diagnosis or a prognosis about an illness in the treatment of which they have been asked to take part. Especially they should avoid commenting medically in front of patients or their representatives upon the results of any analyses.

PART IV

Relations with members of professions in the medical field

Chapter 1. Relations with members of the health professions.

Art. 31.—Pharmacists should do their best to create between themselves and

other members of health professions sentiments of esteem and confidence. They should respect the independence of other members of health professions.

Art. 32.—Quotations from scientific works in a publication of no matter what nature should be faithful and accurate.

Art. 33.—Pharmacists should avoid any activities which tend to do harm to other members of the health professions in relation to their clientele.

Art. 34.—Pharmacists should take care that medical consultations are never given in a pharmacy, no matter by whom.

Chapter II. Relations of pharmacists with those who work with them.

Art. 35.—Pharmacists should treat with fairness and kindness all those who work alongside them.

Art. 36.—They should exact from them conduct in accord with the code.

Art. 37.—Pharmacists who are assistants should be treated as confrères by the owners of business under whom they work and by other pharmacists.

Chapter III. Duties of apprentice masters.

Art. 38.—The pharmacist is a teacher and the apprentice is his pupil. The apprentice master undertakes to give the apprentice practical instruction by allowing him to take part in the technical activities of the pharmacy. He has the responsibility of inspiring him with affection and respect for the profession and giving him an example of professional qualities.

Art. 39.—No pharmacist should pretend to instruct an apprentice if he cannot give the necessary time to undertake the instruction himself and if he does not possess the necessary material resources.

Art. 40.—The apprentice master must be able to count upon the fidelity, obedience and respect of his pupil, who must help within the limits of his knowledge.

Chapter IV. Duties as a member of a profession.

Art. 41.—Every pharmacist should give aid and assistance to other pharmacists to enable them to fulfil their professional

duties. In all circumstances they should show loyalty and solidarity one towards another.

Art. 42.—Contracts between pharmacists should be sincere and fair. The obligations which result should be carried out in a generous and fraternal spirit.

Art. 43.—Pharmacists should take no part in encouraging members of the staff of a confrère to leave him. Before taking into their service the former member of a staff of a confrère in the near neighbourhood, or of a direct competitor, they should inform him. Any disagreement should be submitted to the decision of the organisation.

Art. 44.—Any word or any act which can prejudice a confrère professionally is reprehensible, even if it takes place in private.

Their responsibilities as colleagues oblige pharmacists who have a professional difference to try to reach agreement; if they cannot succeed, they should inform the competent professional organisation.

75 YEARS OF MANUFACTURE AT HOECHST

A German pioneer in the field of chemotherapy

THE first synthetic pharmaceutical speciality launched from the chemical works at Hoechst, Germany, was Kairin, which was made available to doctors in 1883. It owed its introduction to the elucidation of the constitution of the quinine molecule. As a result of that discovery the quinoline part of the quinine molecule was modified to provide a number of substances of outstanding antipyretic action. The so-called pyrazolones were soon found to possess properties far beyond mere antipyretic effects. Antipyrine, for example, discovered by L. Knorr almost simultaneously with Kairin, and produced in Hoechst on a large scale from 1884, had strong analgesic action in addition to its antipyretic effect. For many years an important research effort of Hoechst's pharmaceutical laboratory was directed at intensifying that property by further mutations of the antipyrine molecule. Pyramidon and Novalgin were the highlights of its outcome.

Analgesic substances synthesised by the organisation include Dolantin and Polamidon. In 1902 Anaesthesia was

face anaesthetic, discovered by Ritsert, was prepared on a large scale and Novocain, discovered by Professor A. Einhorn, in collaboration with the Hoechst laboratories, was first marketed in 1905. Pantocain and Hostacain and Cornecain are other anaesthetic specialities of the company.

Contacts with Research

The company's activities brought it into contact with leading figures in medical research in Germany. Robert Koch, one of the pioneers of modern bacteriology, entrusted the Farbwerke Hoechst with the large-scale manufacture of his tuberculin and conducted his researches in closest collaboration with the company's own bacteriological laboratory. The association provided the basis for the production of other bacteriological products. After Behring's introduction of blood-serum therapy against diphtheria, he entered into an association with Hoechst that culminated in the company's adoption of the discovery. Ehrlich, who was called in to answer questions of variations in the results of manufacture, suc-

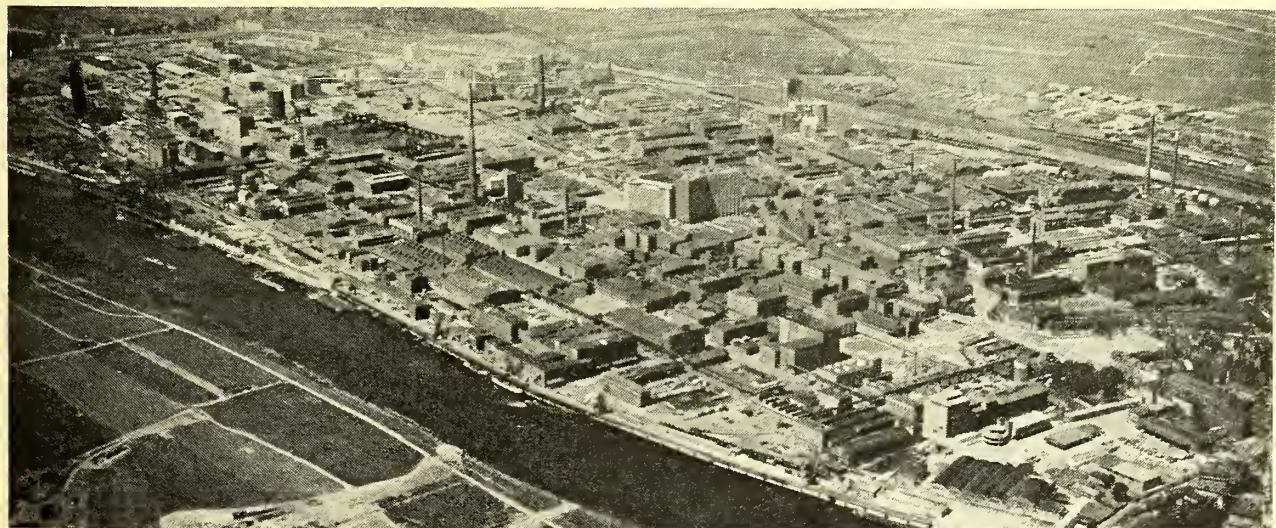
ceeded in increasing the degree of immunisation of the experimental animals. Hoechst's serum institute, claimed the first serum-production centre in the world, was set up in 1894. Two years later it was offering a soluble tetanus toxin.

The first synthetic preparation of a hormone, Suprenalin, was another major accomplishment claimed for the Hoechst laboratories.

A new phase in the company's development opened up after the 1939-45 war when, with American "know-how," manufacture of penicillin was begun at Hoechst. The scope was soon widened to embrace streptomycin and tetracycline (of which the company's speciality Reverin is a chemical mutant).

Progress in the design and corrosion-resistance of plant used in chemical processes made it possible to build at Hoechst new factories in the past few years embodying those trends.

The company's present pharmaceutical manufacturing programme comprises 120 specialities available in a variety of forms.



A LEADER IN GERMAN PHARMACEUTICAL MANUFACTURE: An aerial view of the Hoechst works of Farbwerke Hoechst, A.G. The company claim that, with the affiliated company Behring-Werke, A.G., Marburg, they are the largest manufacturer of pharmaceuticals in the Federal Republic.

HOSPITAL PHARMACY FORUM

On Shutting up Shop

CHRISTMAS in hospital has become a wonderful institution. The ingenuity and energy of the nurses in finding and inventing the ward decorations is truly marvellous. Within a few hours the wards are transformed into fairy grottoes, pirate ships, night clubs or film sets according to the interests of the more energetic members of the staff. The pharmacist is usually conscripted to the vast underground movement of assistant-illusionists and cajoled into supplying boxes, packaging materials, even cotton wool or make-up paints or whatever other pharmaceutical tasks may be necessary. One of our special assignments is the provision of bright red wax for dipping candles in order to provide that necessary festive look at prices within reach of the ward's Christmas budget. A good deal of plaster of paris is requisitioned which never finds its way to the plaster rooms.

Out-patients Were Numerous

Having supplied as much material as his conscience will allow, the pharmacist then retires to the safety and seclusion of his own home for Christmas, leaving younger and more ardent spirits to ring the *welkin* in the hospital on Christmas Day. The out-patients have been numerous this month, in order to be able to cancel clinics this week and swing over consultations until the New Year.

As many beds as possible have been cleared—both to meet the wishes of patients who are well enough to be allowed home and to reduce any unnecessary work on the wards. So, having stocked up, the pharmacist can relax into the comfort of his own family Christmas, if relaxation is the right verb—some of us have small children! But leaving the department closed always raises certain problems, for even with the precautions mentioned—of sending home as many patients as possible—the hospital has to work for twenty-four hours a day and urgent requirements are bound to arise. How many items should be kept as "stock items" on the wards? Who should have access to the pharmacy in the absence of the pharmacist? Should every part of the department be available? Conditions will vary greatly from hospital to hospital, and no hard-and-fast rule can be made as to what stocks are held by the wards. A recent survey in a London teaching hospital showed that about 250 items were issued as stocks, and that the average number held on any ward was eighty. There is a general fear among ward sisters that, like the foolish virgins of the parable, they may be found unready in some critical situation, and so they try to have a little of everything that could ever be wanted. Understandable though that is, such building-up of stocks has dangers which more than offset the inconvenience of occasionally (one would say rarely) having to obtain supplies from the pharmacy out of hours. The enormous number of proprietary drugs now in use and the all-too-familiar difficulties of nomenclature constitutes a serious danger if the nurse has to interpret the prescription and select the drug from among eighty or so others without reference to the pharmacist. Over-filled stock cupboards are likely to harbour obsolete material, or materials that have deteriorated. On the other hand, if most of the drugs are issued only as individual prescriptions, the cupboards become filled with multiples of bottles of the same material dispensed for various patients, and the nurses will come to use them as "stock" bottles, disregarding the name of the patient. The pharmacists, also, may be tempted to issue more "as stock" in order to cut down the amount of prescription dispensing. The task of the chief pharmacist is to hold a reasonable balance between those tendencies. It is a fair analogy that the pharmacist's rôle in the supply of medicine is like that of the signalman on the railway. Not only does he keep the traffic moving by supplying the drugs

as ordered: he must also keep a look-out for irregularities, and issue a warning if something does not appear to be correct. The greater the variety of "stocks," the more that safeguard is removed. Ideally, the pharmacist should see all prescriptions, but in practice that would prove too unwieldy, and so a compromise must be reached. A possible method for keeping the number of stock items within reasonable limits would be to have an agreement with the medical committee on the drugs to be used for particular purposes. After all, there can be little pharmacological justification for stocking four different routine purgatives. Surely there can be no real need for more than one general "sedative" by which is usually meant a medium-acting barbiturate. The fact that three or four antacid preparations are in use is due more to the predilections of several doctors than to any clearly defined differences in clinical indications for them. A little co-operation and organisation by the pharmacy committee (or whatever its name may be) might remove some of the multiplicity of those products in circulation. A survey of the stocks at present held might well lead to a simplification of prescribing and result in the elimination of some unnecessary work for the pharmacist.

The next problem the pharmacist has to consider is the arrangements for access to the department out of hours. Some hospitals have found it worthwhile to appoint a resident pharmacist, so that somebody is available at all times. That is an ideal solution, but one that would, on the grounds of expense, difficulty of accommodation, and difficulty of recruitment, not be generally acceptable. Most pharmacists arrange for access of a limited nature, either by providing a cupboard containing a selection of drugs likely to be needed in emergency, or by leaving the whole dispensary open save only that the D.D.A. cupboard and any other special classes of drugs are locked in cupboards accessible only to the pharmacist. The important factor should always be that the pharmacist knows of every instance in which his pharmacy has been entered out of hours. That may be established by means of a key-book that has to be signed and entered up before the key is handed to the house physician. A good index should be provided in the department to enable the houseman to find the required drug quickly, and the index must be kept up to date, since it is always the odd thing, not properly indexed, that causes trouble.

On-call Arrangements

In the last resort the pharmacist must be available on the telephone to help out in difficulties. That has raised problems in some hospitals, since no "on-call" arrangements are officially provided. Where there are several pharmacists on the staff an amicable arrangement usually works whereby the telephone numbers are posted in the department or with the switchboard attendant, who can call each in turn until one pharmacist is found. It is more satisfactory however, if all calls are made to the Chief Pharmacist in the first instance, since he can usually dispose of the query promptly and authorise any borrowing or purchasing from outside agencies, or can communicate with his own staff if it necessary to make other arrangements, such as bringing in the nearest pharmacist. Fortunately such occasions are rare, but when they arise they are usually of such a kind as to demand prompt attention whatever the inconvenience, and the opportunity for service, which may well be life-saving, is one which a conscientious pharmacist would not resent.

BACKGROUND OF DIRECTORS:—On a board of any size it is, in my opinion, a mistake for all the directors to be men who have worked their way up through the company.—Sir Alexander Fleck at Melbourne on December 9, 1958.

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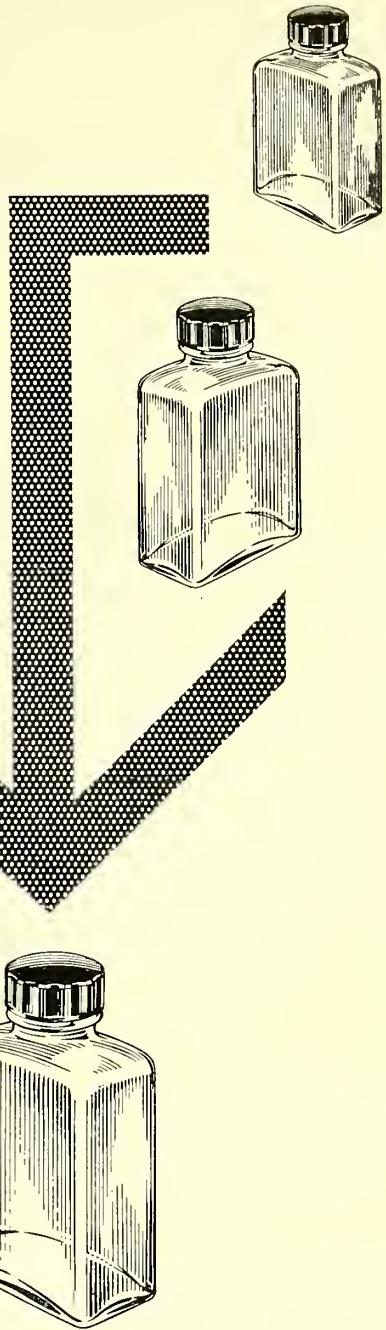
Suggested Packs—

- $\frac{1}{2}$ -oz.— 25 Aspirin.
- 1-oz.— 50 Aspirin or
25 Codeine.
- $1\frac{1}{4}$ -oz.—100 Aspirin or
50 Codeine.
- $3\frac{1}{2}$ -oz.—100 Codeine.

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| No. 4 Liquid | 2 doz. x $\frac{1}{2}$ -oz. bottles | £1 16 0 |
| No. 5 " | 1 doz. x 2-oz. bottles | £2 2 0 |
| COMPLAN No. 1 | 2 doz. x 1-lb. cartons | £3 15 0 |
| FAREX No. 5 | 2 doz. x 10-oz. cartons | £1 4 0 |
| FERSAMAL No. 1 | 1 doz. x 100's tins | £1 6 8+ P.T. 9/- |
| GLUCODIN No. 11 | 2 doz. x 1-lb. cartons | £2 4 0 |
| MINADEX No. 1 | 2 doz. x 6-oz. bottles | £2 0 0+ P.T. 13/6 |
| No. 2 | 1 doz. x 12-oz. bottles | £1 14 8+ P.T. 11/8½ |
| OSTOCALCIUM | | £1 16 0 |
| No. 1 | 2 doz. x 50's tins | £1 12 0 |
| No. 2 | 1 doz. x 100's tins | |
| OSTERMILK (No. 1 and No. 2) | 2 doz. or 3 doz. 1-lb. tins. 4 doz. x 1-lb. tins or more. | £1 18 3 per doz. £1 16 6 per doz. |

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, DECEMBER 31, 1958: With stocks of many commodities at their lowest for many years and a more easy credit position obtaining, the markets look forward to better trading conditions in 1959 than in 1958. It is, however, realised that competition on home and overseas accounts for chemicals will be keener than ever before as the Common Market comes into operation.

Prices have changed little during the two weeks that have elapsed since our last report. ZINC OXIDE, however, advanced 30s. per ton.

The dispute between the Customs and Excise and importers of CASCARA BARK, which has been going on for the past six months (see *C. & D.*, December 27, 1958, p. 697), as to whether duty should be paid on bark imported in crushed form, has now been settled to the satisfaction of the importers. The Customs has now decided that bark which has been "merely crushed into small pieces" can be regarded as falling within group XII (3) of the list of exemptions in part three of the current tariff and is therefore exempt. Another matter taken up by the Drug Import Merchants' Section of the London Chamber of Commerce with the Authorities has been the description of GRINDELIA in the tariff which appears as "GRINDELIA LEAVES and FLOWERS." The Customs will not accept that whole GRINDELIA HERB (including stalks) as coming within that heading, though dried leaves and flowers with stems can be imported duty free.

Supplies of IPECACUANHA remain tight though there were limited shipment offers for the Matto Grosso and Colombian varieties. Good quality Alexandria SENNA PODS are virtually unobtainable on the spot, and SENECA was said to be scarce at origin. Inquirers for LEMON PEEL found the market bare of supplies. Offers of Portuguese ERGOT were easier by sixpence per lb. at origin, while spot was reduced by threepence. AROMATIC SEEDS were unchanged in price except for CELERY which was down 5s. per lb. for shipment.

Among ESSENTIAL OILS Penang PATCHOULI was down by one shilling per lb. in both positions, and Chinese PEPPERMINT by sixpence on the spot and at origin.

LONDON EXCHANGE RATES

At the opening on Wednesday

| | | |
|---|--------------------|---------------------|
| Alexandria .. | Piastres to £ | 97½-97½ |
| Amsterdam .. | Florins to £ | 10·56-10·72 |
| *Bombay .. | Shillings to rupee | 1/5 1/8-1/6 3/8 |
| Brussels .. | Francs to £ | 138·95-141·05 |
| Copenhagen, Kroner to £ | | 19·19½-19·48½ |
| Frankfurt .. | D Marks to £ | 11·67 1/8-11·84 1/8 |
| *Hong Kong .. | Shillings to \$ | 1/2 1/8-1/2 2/8 |
| *Karachi .. | Shillings to rupee | 1/5 1/8-1/6 3/8 |
| Lisbon .. | Escudos to £ | 79·90-81·10 |
| *Montreal .. | Dollars to £ | 2·70-2·70½ |
| New York .. | Dollars to £ | 2·78-2·82 |
| Oslo | Kroner to £ | 19·85-20·15 |
| *Paris | Francs to £ | 1,362·20-1,402·65 |
| Stockholm .. | Kronor to £ | 14·37½-14·59½ |
| *Singapore .. | Shillings to \$ | 2/3-2·4 |
| Zurich .. | Francs to £ | 12·15 1/8-12·33 1/8 |
| *Free market rates; remainder Bank of England | | |
| Bank rate: 4 per cent. from November 20. | | |

Pharmaceutical Chemicals

ACETANILIDE. — 1-cwt. lots are 2s. 10d. per lb. for crystals and 5-cwt., 2s. 9d.

AMIDOPYRIN. — Minimum rate is 22s. 5d. per lb. with usual differentials for smalls.

AMMONIUM ACETATE. — 1-cwt. lots of B.P.C., 1949, are quoted at 4s. 5d. per lb.

AMYLOBARBITONE. — B.P.C. is 77s. 6d. per kilo for minimum 25-kilo lots and SODIUM, B.P.C., 87s. 6d. per kilo.

BENZOIC ACID. — 1-cwt. lots are 2s. 11½d. per lb.; and SODIUM SALT is 2s. 9½d. per lb. in 1-cwt. lots.

BENZYL BENZOATE. — One-ton lots of B.P. grade are at 4s. 6d. per lb.

BORIC ACID. — Prices (per ton) for B.P. grade in quantities of 1 ton and upwards are as follows:— Granular, £89 10s.; crystals, £96 10s.; powder, £94; extra-fine powder, £96 per ton in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical grades range from £75 10s. to £85 per ton according to type and packing.

CALCIUM CARBONATE. — B.P. light-precipitated powder is £32 per ton, ex store.

CITRATES. — Present rates (per lb.) for 1-cwt. and 5-cwt. lots are as follows:—

| | 1-cwt. | 5 cwt. |
|-----------------------|--------|--------|
| | s. d. | s. d. |
| SODIUM† .. | 2 10 | 2 9 |
| POTASSIUM† .. | 3 1 | 2 11½ |
| IRON AND AMMONIUM* .. | 3 9 | 3 7½ |

†Powder 3d. per lb. more. *Scales 10d. per lb. more.

CARMINE. — Price is 90s. per lb. for 1-cwt. lots.

DICOPHANE (DDT). — Prices are as follows:— 1-cwt. lots 3s. 2d. per lb.; 5-cwt. 3s. 0½d.; 1-ton, 2s. 11d.

EPHEDRINE. — ALKALOID, is nominally 6s. 6d. per oz.; SULPHATE, 4s. and HYDRO-CHLORIDE, 3s. 3d. per oz.

ERGOTOXINE ETHANESULPHONATE. — Price per gm. for B.P.C. (1949) is : 1 gm., 68s. 9d.; 10 gm., 155s. 3d.

ICHTHAMMOL. — B.P. is from 2s. to 2s. 6d. per lb. in 1-cwt. lots as to origin and container.

PARAFFINS. — Prices to wholesale distributors are:— *Liquid* : HEAVY, B.P., £107 17s. 6d. per ton; LIGHT, B.P., £87 15s.; Technical White oils, £79 5s., for the LIGHT and £92 15s., for the MEDIUM. All in 40-50 gall. returnable loaned drums, delivered U.K. *Soft*: WHITE, medium consistency is now £110 15s. per ton. WHITE, soft consistency, £107 7s. 6d., and YELLOW, £88 10s. all B.P., in non-returnable drums delivered.

PENTOBARBITONE SODIUM. — Minimum 25-kilo lots are 125s. per kilo.

PETHIDINE HYDROCHLORIDE. — B.P. 100-gm. lots, 100s. Subject to D.D.A. regulations.

SACCHARIN. — In lots of 1 lb. and over B.P.C. powder is quoted at 99s. 10d. per lb., the SODIUM SALT is 80s. 10d. per lb. Prices include duty and carriage.

SALICYLAMIDE. — Price per lb. for 1-cwt. lots is 8s. 6d.

SEMICARBAZIDE HYDROCHLORIDE. — Technical grade is 19s. per lb. for 1-cwt. lots.

SULPHUR. — B.P. PRECIPITATE in 1-ton lots is £120 per ton, delivered ex works.

TANNIC ACID. — The B.P. levis, ex ether is quoted at 10s. per lb. for 1-cwt. lots. The B.P. powder is 9s. 6d. per lb. in 1-cwt. lots.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are 15s. 9d. per lb.; 28-lb., 14s. 6d.

TEREBINTH. — B.P. is 2s. 3d. per lb.

ZINC CARBONATE. — In 1-cwt. lots the price is 1s. 9½d. per lb.

ZINC CHLORIDE. — B.P.C. cake from 4s. 6d. to 4s. 10d. per lb.; sticks from 5s. 10d. to 6s. 2d. per lb. TECHNICAL, 115s. per cwt.

ZINC OXIDE. — Dearer. B.P. quality in 2-ton lots is now £110 10s.; 1-ton, £111; 10-cwt., £112 10s.

ZINC PEROXIDE. — Price (per lb.) for 1-cwt. lots of B.P. is 5s. 3d.

ZINC SULPHATE. — B.P. in 1-cwt. lots is quoted at 1s. 9d. per lb.; technical, 60s. per cwt.

Industrial Chemicals

ACETALDEHYDE. — The 100 per cent. is £155 per ton.

ACETATES. — Prices (per cwt.) for drum lots are as follows:— AMYL (technical), 255s., and B.S.S., 257s. BUTYL, 179s.; ETHYL, 151s.; ISOPROPYL, 147s.

ACETIC ANHYDRIDE. — 10-ton lots are quoted at £126 per ton, delivered U.K. in returnable drums; 1-ton lots, £128.

ACETONE. — One-ton lots are quoted at £90 per ton.

BENZOLE. — Thiophene-free is from 9s. 3½d. per gall. for one 50-gall. barrel and pure, 6s. 3½d. per gall. for similar lots.

N-BUTYL ALCOHOL. — 1-ton to 5-ton lots are quoted at £159 per ton and one-drum lots are £163 per ton. Secondary is £130.

CARBON TETRACHLORIDE, B.P. — 1-2-carboy lots are £135 per ton. TECHNICAL, in 40-gall. drums, in less than 1-ton lots, is £84; 1 ton and under 2 tons, £81; 2 tons and under 4 tons £80 10s.; 4 tons and upwards, £79 10s.

ISOPROPYL ALCOHOL. — Technical grade (99 per cent.) 5s. 0½d. per gall. for 10,000-gall. lots; anhydrous in drum lots is £108 per ton.

METHYL ETHYL KETONE. — One-ton lots in drums are quoted at £145 per ton.

METHYL ISOBUTYL KETONE. — One-ton lots (in one delivery) are now £165 per ton.

NAPHTHALENE. — Home market prices (per ton for 4-ton lots at one time) are as follows:— CRUDE, crystallising point 64-71·9° C., £22 5s. to £23; WHITZED, c.p. 72-77·5° C., £27 3s. 6d. to £35 13s. 6d. according to the crystallising point, ex works; HOT-PRESSED, minimum c.p. 77·6° C., £42 10s. 6d. ex maker's works; CRYSTALS from £62 8s. 6d. to £64 18s. 6d., delivered. BALL AND FLAKE, £70 18s. 6d. to £73 9s. delivered.

PHthalates. — Prices (per ton) for drum lots are as follows:— DIBUTYL, £216; DI-ISOBUTYL, £202; DIETHYL, £193 10s.; DIMETHYL, £185.

SEARATES. — Spot prices for minimum MINIUM (all grades), 258s. 6d. per cwt., 1-ton lots are now as follows:— ALU-CALCIUM (precipitated), 248s. 6d.; LEAD (30 per cent.), 228s. 6d.; MAGNESIUM (standard), 261s. and (superfine), 307s.; ZINC, 261s. to 291s. as to grade.

TITANIUM DIOXIDE. — In 5-ton spot lots anatase is from £162 5s. per ton; rutile is £178 5s. for surface-coated and £170 for non-surface-coated.

Crude Drugs

ACONITE.—Spot supplies of Spanish *napellus* are 2s. 6d. per lb.

AGAR.—Kobe is 10s. 6d. per lb., duty paid; new-crop for January–February 1959 shipment, 8s. 4½d.

ALOES.—Cape prime on the spot is 230s. per cwt. and for shipment, 205s., c.i.f.

ANISE (STAR).—Chinese is 110s. per cwt. and 135s. spot, duty paid.

BALSAMS.—Quotations per lb. are:—CANADA: Spot, 23s. COPAIBA: Para from 7s. 6d. to 9s. 6d., duty paid. PERU: Spot, 9s. 10d. in bond. TOLU (genuine as imported): 24s., B.P., 16s. 6d.

BELLADONNA.—Herb is 8s. 3d. per lb. on the spot. Root is 1s. 6d. spot; shipment, 1s. 3d., c.i.f.

BENZOIN.—Sumatra block on the spot is £22 to £28 as to quality.

BUCHU.—Spot rounds are 6s. per lb. and shipment, 5s. 9d., c.i.f.

CALAMUS.—Root is quoted at 1s. 4d. per lb., c.i.f.

CAMPHOR.—B.P. POWDER is from 4s. 3d. per lb., duty paid. TABLETS, ¼-oz., are 6s. in bond.

CAPSICUMS.—East African are from 150s. to 200s. per cwt. on the spot.

CARDAMOMS.—Aleppo greens are offered on the spot at 15s. per lb.; January shipment is 13s. 6d., c.i.f.; Seeds, spot, 24s. 3d.; shipment, 19s. 6d., c.i.f.

CASCARA.—Spot 1957 peel, 260s. per cwt. 1958 peel, shipment, 250s., c.i.f.

CASSIA.—Extra-selected broken for shipment, 242s. 6d.; 210s. c.i.f. Spot: Whole 240s. and selected 230s., both in bond.

CHERRY BARK.—Thin natural is 1s. 5d. per lb., and rosed is 1s. 11d.

CHILLIES.—Spot Mombasa are 185s. per cwt. and Zanzibar, 225s.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb.; OOOO, 6s. 9d.; OOO, 6s. 7½d.; OO, 6s. 4½d.; seconds, 4s. 5½d.; featherings, 1s. 9¾d.; quillings, 4s.; chips, 1s.

CLOVES.—Zanzibar on the spot are 3s. per lb.; shipment, 2s. 8½d., c.i.f.

COCHINEAL.—Silver-grey Peruvian quoted 6s. 4d. per lb., c.i.f.; Canary Isles black-brilliant, 20s. 6d.; silver-grey, 17s. 6d. spot.

COCILLANA.—Bark is 1s. 8d. per lb. on the spot.

COLOCYNTH PULP.—Spot, 3s. per lb.

DIGITALIS LEAF.—Purpurea from 1s. 2½d. to 2s. 7d. per lb., c.i.f.

ERGOT.—Portuguese is 4s. 6d. per lb., c.i.f. for prompt shipment and 5s. 3d. spot nominal.

FRANGULA.—Spot is 105s. per cwt.

GENTIAN.—French is 170s. per cwt. on the spot.

GINGER.—African, 97s. 6d. per cwt. on the spot; for shipment, 90s., c.i.f. Jamaican No. 3 on the spot is 275s. per cwt.

GUM ACACIA.—Kordofan cleaned sorts are 138s. per cwt. on the spot; December–January shipment, 121s., c.i.f.

HONEY.—Australian light-amber is 113s. to 117s. and medium amber 102s. 6d. to 107s. 6d. Argentine, 125s. to 130s.; Jamaican, 130s. to 135s.; New Zealand clover, 160s. to 170s.; all per cwt. on the spot.

HYDRASTIS.—Spot 28s. per lb.

HYOSCYAMUS.—Dutch leaves (*niger*) are 1s. 6½d. per lb., c.i.f., prompt shipment.

IPPECACUANHA.—Shipment (c.i.f.) Matto Grosso, 53s. 6d. per lb., resellers and 54s. original; Colombian, 57s. 6d.

KARAYA.—No. 1 gum on the spot is quoted at 235s. per cwt., No. 2 at 165s.

KOLA NUTS.—Jamaican spot market

cleared, shipment, 7d. per lb., c.i.f. African 5d. to 5½d. spot and 4d., c.i.f.

KRAMERIA.—Root is quoted at 90s. per cwt.

LANOLIN.—ANHYDROUS, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LIQUORICE.—Natural root: Persian on the spot is 47s. 6d.; for shipment, 42s. 6d., c.i.f., per cwt. Block juice: Anatolian and Chinese, 190s. per cwt., Italian stick from 310s. to 476s. per cwt. Spray dried extract, 2s. 10½d. per lb.

LOBELIA HERB.—Spot offers of American are 3s. 9d. per lb. and for shipment, 3s. 6d., c.i.f. Dutch 3s. 1d., c.i.f. for shipment.

MACE.—Whole on the spot is from 23s. 6d. per lb.

MENTHOL.—Chinese is 52s. per lb., duty paid and 47s. c.i.f.; Brazilian, spot, 36s., duty paid, January shipment, 33s., c.i.f. Formosan for shipment, 36s., c.i.f.

MERCURY.—Price per flask (76-lb.) is £74 on the spot.

NUTMEGS.—West Indian 80s. 17s. per lb., spot; sound unassorted, 13s.; defectives, 10s.

ORANGE PEEL.—West Indian bitter quarters are 11d. per lb.; Spanish, 1s. 8d., as to quality, thin-cut Tripoli, 2s. 3d.

ORRIS ROOT.—Florentine is 330s. per cwt.

PAPAIN.—Shipment is 24s. per lb., c.i.f., for grade one, spot, 25s.

PEPPER.—White Sarawak spot, 2s. 6½d. per lb., December shipment, 2s. 6d., c.i.f.; Black Sarawak spot, 1s. 7½d.; December shipment, 1s. 6½d., c.i.f. Black Malabar nominal at 212s. 6d. per cwt. on the spot; new-crop for December–January shipment, 180s., c.i.f.

PIMENTO.—Spot value is 540s. per cwt. landed; shipment, 511s. 6d., c.i.f.

PODOPHYLLUM.—*Emodi*: 230s. per cwt., c.i.f., shipment. *Peltatum*, on the spot, 4s. 3d. per lb.; shipment, 450s. per cwt., c.i.f.

PYRETHRUM.—Extract, minimum 25 per cent. w/w pyrethrins, is 75s. per lb. for small lots.

QUASSIA.—Shipment offers (January) are at 39s. per cwt., c.i.f.

QUILLIAIA.—Spot offers of whole bark at 140s. per cwt.; cut, 170s. Whole for shipment, 110s., c.i.f.

RAUWOLFIA.—*Canescens*, 2s. per lb., c.i.f.; *Vomitoria*, 2s. 3d., c.i.f.; *Serpentina*, 6s., c.i.f. asked.

RHUBARB.—Chinese small to medium offering from 6s. to 7s. 6d. per lb., as to quality. Best grades not available on spot.

SAFFRON.—Spanish is quoted at 220s. per lb.

SARASAPARILLA.—Jamaican native red on the spot is 2s. 9d. per lb. Shipment, 2s. 6d., c.i.f.

SEEDS. (Per cwt.). ANISE.—Spanish, 16s.; Turkish, 140s., both duty paid.

CARAWAY.—Dutch 122s. 6d., duty paid. CELERY.—Indian spot, 180s.; shipment, 124s., c.i.f. for January–February, 1959 shipment; new crop for June–July, 1959, 127s. 6d., c.i.f.

CORIANDER.—Moroccan on spot 57s. 6d.; Polish, 52s. 6d., both duty paid. Moroccan for shipment unchanged at 44s., c.i.f.

CUMIN.—Cyprian on spot 260s. and Iranian, 240s., in bond. DILL.—Indian quoted at 70s. on spot, for shipment, sellers indicating 59s., c.i.f.

FENNEL.—Chinese, 150s., duty paid; Indian, 170s.; FENUGREEK.—Moroccan, 45s., duty paid with small business passing.

MUSTARD.—English, 120s.; Danish, 95s., duty paid.

STRAMONIUM.—Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

STYRAX.—January 1959 delivery offered at 30s. per lb., ex wharf, London.

Essential and Expressed Oils

ALMOND.—British oil is 9s. per lb. Moroccan, 6s. 9d., in bond.

AMBER.—Rectified on the spot is 1s. 6d. per lb.

ANISE.—Chinese, 8s. per lb., spot; shipment, 7s. 9d., c.i.f.

BAY.—West Indian is 12s. 6d. per lb. on the spot.

BERGAMOT.—Spot supplies are from 86s. 6d. per lb.

BOIS DE ROSE.—Brazilian is 15s. 3d. per lb. on the spot and 14s. 3d., c.i.f.

CADE.—Spanish is 2s. 6d. per lb. for drum lots.

CAJUPUT.—Spot supplies are from 10s. per lb.

CAMPHOR, WHITE.—Chinese is 1s. 9d. per lb. in bond.

CALAMUS.—Spot quotations are 62s. 6d. per lb.

CANANGA.—Spot is from 47s. 6d. to 50s. per lb.

CARAWAY.—English-distilled is offered at 55s. and imported 26s. 6d. per lb.

CARDAMOM.—Price per lb. is from 350s. for English-distilled and 267s. 6d. for imported.

CASSIA.—Spot is 13s. 3d. per lb.; shipment, 13s. 6d., c.i.f.

CASTOR.—Home-produced B.P. oil on the spot is £130 per ton naked ex mill (2-ton lots).

CELERY SEED.—Oil is 90s. per lb. for bulk lots.

CITRONELLA.—Ceylon, spot is 4s.; shipment, 3s. 3d., c.i.f. Formosan, spot 4s., in bond; shipment, 3s. 5½d., c.i.f.

CLOVE.—Madagascar leaf, 7s. per lb., duty paid; shipment, 5s. 10½d., c.i.f. Rectified 87–88 per cent., 9s. 3d. Distilled bud oil, English, B.P., 30s. to 31s.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER.—B.P. oil is quoted from 67s. 6d. per lb.

CUBEB.—Small spot supplies of imported are 65s. per lb.

CUMIN.—Quotations for English-distilled oil are about 90s. per lb. and imported, 85s.

LAVENDER SPIKE.—Spanish is at 16s. 6d. to 17s. 6d. per lb. for original drums.

LEMONGRASS.—Spot 5s. 4d. per lb., and shipment, 5s. 2d., c.i.f.

PATCHOULI.—Penang is 23s., duty paid and 19s., c.i.f. per lb.

PEPPERMINT.—*Arvensis*: Chinese is 24s. per lb. on the spot and 21s., c.i.f. Brazilian, 8s. 2d. spot, and 7s. 4d., c.i.f. Formosan, 16s. 6d., spot; new-crop for January shipment, 14s. 6d., c.i.f. *Piperita*: English "Mitcham-type" from 42s. 6d. to 50s.; American 27s. 6d. to 30s., as to origin.

UNITED STATES REPORT

NEW YORK, DECEMBER 30: National Formulary grade TARTARIC ACID is being reduced on January 5 to 41 cents a lb., a reduction of eight cents. BRUCINE-prices are higher with the ALKALOID now \$1.85 an oz. (up 65 cents), and the SULPHATE \$1.50 (up 35 cents). Spot prices for RUTIN have been reduced to \$14.25 a kilo compared with a former asking rate of \$16.50. SENEGA was raised 10 cents to \$2.10 a lb. while Spanish SAFFRON declined 50 cents to \$36 a lb. Lower per lb. among ESSENTIAL OILS were Formosan CITRONELLA at 55 cents (down five cents), Floridan ORANGE at \$1.15 (five cents), and Java CITRONELLA at 57 cents (three cents).

NOTES ON NEW MEDICAMENTS

COLTROMYL.—*Chemistry:* Thiocolchicoside, a synthetically prepared glycoside derived from a thio-analogue of colchicine. Thiocolchicoside has no antimitotic activity. Its muscle-relaxant action differs from that of curarine, as it acts centrally, and reduces muscle tone without affecting normal movement. Other muscle relaxants with an action on the cord are mephenesin (Myanesin) and mephenesin carbamate (Tolseram). Mephenesin is also present with sedatives in Noctynol, Seconesin and Axine. Meprobamate (Equanil, Mepavlon, Miltown) has a similar but milder interneuronal blocking action. Those preparations are given orally, but Coltromy is administered by injection, preferably intravenously.

ILIDAR.—*Chemistry:* 6-Allyl-6-aza-1:2-3:4-dibenzocyclohepta-1:3-diene phosphate (azapetidine phosphate). The compound inhibits the effects of circulating adrenaline, and blocks vasomotor response to peripheral nerve stimulation. It also has direct dilator action on the arterioles, and appears to evoke a dilator response in skeletal-muscle vessels demonstrating marked peripheral vasodilator activity. Other dilators used in vasospasm and peripheral vascular disorders are Tolazoline (Priscol); nicotinyl alcohol (Ronicol); nylidrin (Perdilatol); muscle extracts (Embran); pancreatic extracts (Glumorin, Padutin); preparations such as Hydergine, Cyclospasmol and Dibenyline; and the short-acting nicotinic acid.

LEDERKYN ACETYL.—*Chemistry:* N¹-acetyl-sulphamethoxypyridazine. Sulphonamides in the form of the free bases have a bitter taste, which renders sulphonamide suspensions unacceptable to many children and adults. Certain derivatives of sulphonamides are free from that disadvantage and, provided they are rapidly hydrolysed in the body to yield the active base, may be formulated to give elegant palatable suspensions. Lederkyn-acetyl is one product of that type. It contains the acetyl derivative of a long-acting sulphonamide. Gantrisin syrup contains the N¹ acetyl derivative of sulphafurazole, which, in contrast with sulphamethoxypyridazine, is rapidly absorbed and excreted.

MEGOBAR AND PHENAGLATE.—Both products contain barbiturates associated with bemegride (Megimide), a central nervous system stimulant employed usually with aminophenazole (Daptazole) in the treatment of barbiturate poisoning and overdose. The present combination exploits the bemegride's stimulant action and provides automatic protection from the excessive depressant effects of barbiturate overdosage. Adequate blood pressure, pulse rate and respiration are maintained. The portions of bemegride employed are claimed not to affect onset, duration, or depth of sleep, and the hypnotic effects of standard doses compare with those obtained with the barbiturate component alone. A previous attempt to achieve self-limiting activity with barbiturates is represented by Barbemel, which utilised emetine. Excessive doses are counteracted by the emetic action of the combination.

SOFRAMYCIN NEBULISER.—*Constituents:* Soframycin (framycetin) gramicidin and phenylephrine. The framycin is specially effective against staphylococci, the gramicidin against streptococci, and, by nebuliser application, of value in the treatment of naso-pharyngeal infections. Phenylephrine, an effective decongestant, facilitates the penetration of the other constituents. Preparations formulated on similar lines include Prinexin, Gluco-thricil, and Prothricin. Comparable products, but containing steroids, include Hydrospray and Cortibiotic Nasal drops.

TELMID.—*Chemistry:* 3,3'-Diethylthia-dicarboxylic iodide, or dithiazine; also described as 3 - ethyl - 2-[5 - (3 - ethyl - 2 - benzothiazolylidene)-1,3-pentadienyl] benzothiazolium iodide. The compound is effective against an exceptional number of worms, and is valuable in multiple helminth infections. It is valuable

in strongyloidiasis (against which an effective therapeutic agent was lacking), as it gives almost uniformly successful results. It is less effective against hookworm, unless tetrachloroethylene is also given. Hexylresorcinol is effective against more than one parasite and is used against roundworms, threadworms, hookworms, dwarf tapeworms and giant intestinal flukes; piperazine is effective against roundworms and threadworms; and ehenopodium oil has been used against roundworms, hookworms and dwarf tapeworms.

TYMPALGIN.—*Constituents:* Phenazone, benzocaine, chlorbutol, ephedrine, potassium hydroxyquinoline sulphate and phenylmercuric nitrate in propylene glycol. The first three substances have an analgesic action. Ephedrine causes local vasoconstriction, relieves pain and, by delaying absorption, extends the duration of action of the local analgesics. Quinoline and phenylmercuric derivatives have antiseptic properties, and the vehicle assists decongestion. Auralgicin is similar, with glycerin as its vehicle. Auraltone contains phenazone and benzocaine in glycerin.

TYROMIST.—*Constituents:* Tyrothricin, cetrime, amethocaine. Tyrothricin is contraindicated systemically, because of its toxicity and rapid inactivation. Applied topically it is effective, well tolerated by the skin and mucous membranes and does not cause sensitivity to other antibiotics that may be used systemically. In Tyromist the action of tyrothricin is enhanced by the surface-active and antiseptic properties of cetrime. Amethocaine provides a local analgesic action, and relieves the discomfort. Other products containing tyrothricin include Tyrosolven and Tyrosets (tyrothricin with benzocaine), Tracinet (tyrothricin, bacitracin and benzocaine), Tetrazets (tyrothricin, bacitracin, neomycin and benzocaine), Phenidex (tyrothricin, cetylpyridinium and benzocaine) and Collosets (tyrothricin with cetyl-ethyl-dimethyl ammonium ethyl sulphate).

AMERICAN LISTED DRUGS

The American Medical Association's Council on Drugs has recently evaluated the following:

RABIES VACCINE (DUCK EMBRYO).—A potency-standardised, sterile, freeze-dried suspension of killed rabies virus that has been chemically inactivated and preserved with thiomersal 1:10,000. The vaccine is intended to provide active immunisation during the incubation period after exposure to rabies infection. Subcutaneous injection of 1 ml daily into the abdominal skin for fourteen days produces prompt antibody response. Caution has to be observed when a patient has previously exhibited allergic responses to egg, chicken, or chicken feathers. Data supplied by Eli Lilly & Co.

SULPHAMETHOXYPYRIDAZINE.—*Chemically:* N⁴-(6-methoxy-3-pyridazinyl) sulphanilamide-3-sulphanilamido-6-methoxy pyridazine. Used in urinary tract and systemic infections of susceptible organisms, the drug achieves blood levels within a few hours after administration, and has a prolonged effect by reason of its exceptional low excretion rate. The dose is 1 gm. on the first day followed by 500 mgm. daily or 1 gm. on alternate days for five to seven days, subject to the patient's being asymptomatic for 48-72 hours. Severe infections require 2 gm. initially followed by 500 mgm. daily, with proportionate reduction for body weight in children. Data supplied by Lederle Laboratories division of the American Cyanamid Co. Proprietary names: Kynex, Midicel.

ACETYL SULPHAMETHOXYPYRIDAZINE.—*Chemically:* N¹-acetyl-N⁴-(6-methoxy-3-pyridazinyl) sulphanilamide-3-(N¹-acetyl)sulphanilamido-6-methoxy pyridazine. The compound has the same actions and uses as the sulphonamides but is tasteless and lends itself well to formulation as a liquid preparation for paediatric use. For patients whose body weight is above 80 lb., and for adults, the dose is the same as with the unacetylated drug. For small children dosage is based upon 250 mgm. for

each 20 lb. of body weight, given after the first meal on the first day. Maintenance dosage may be 250 mgm. on alternate days or 125 mgm. daily. Data supplied by Lederle Laboratories division of the American Cyanamid Co. Proprietary name: Kynex Acetyl.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, January 5

LONDON SECTION, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6.30 p.m. Mr. C. M. Berners-Lee on "Uses of Electronic Computers in the Chemical Industry."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, central library, Beckenham, at 8 p.m. Mr. Henry Price (Member of Parliament for West Lewisham) on "Customs and Traditions of the 'House'."

Tuesday, January 6

WIMBLEDON and THAMES VALLEY BRANCHES, PHARMACEUTICAL SOCIETY, town hall, Wimbledon, at 7.45 p.m. Chief Inspector Dyke (drugs branch, Home Office) on "Some Aspects of Control of Narcotic Drugs, and Addiction to Them."

Wednesday, January 7

BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, and NORTH BEDFORDSHIRE BRANCH, NATIONAL PHARMACEUTICAL UNION, Dujon restaurant, Bedford, at 7.45 p.m. Brains trust.

BURNLEY BRANCH, PHARMACEUTICAL SOCIETY, Cross Keys hotel, St. James Street, at 7.45 p.m. Messrs. S. Bibby and H. R. Howarth on "Two Innocents (?) Abroad."

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, assembly house, Theatre Street, at 7.30 p.m. Mr. A. C. Davies on "Modern Trends in Dentistry."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION, Ardington rooms, Clapham Junction, London, S.W.11, at 6 p.m. Dinner and New Year party.

Thursday, January 8

DURHAM COUNTY BRANCH, PHARMACEUTICAL SOCIETY, Waterloo hotel, Old Elvet, Durham City, at 7.45 p.m. Talk by Dr. J. R. Hawkings (Winterton Hospital).

GUILDFORD BRANCH, PHARMACEUTICAL SOCIETY, Three Counties club, Haslemere, at 7.30 p.m. Mr. C. C. Stevens (Imperial Chemical Industries, Ltd.) on "The Pharmacist and Common Law."

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metropole hotel, at 7.45 p.m. Mr. E. N. Pullom (Editor, *Pharmaceutical Journal*) on "The P.J. and the Trade and Technical Press."

Friday, January 9

CROYDON PHARMACISTS' ASSOCIATION, Greyhound hotel, at 8 p.m. Film show.

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Mr. H. H. Campbell on "Some Notes on Chemistry of the B.P., 1958"; Miss J. C. Barnes on "Biological Products of the B.P., 1958."

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Turk's Head hotel, High Street, at 7.30 p.m. Members' night.

HERTFORD BRANCH, PHARMACEUTICAL SOCIETY, Cranbourne rooms, Hatfield, at 8 p.m. Annual buffet-dance.

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, rock gardens pavilion, Southsea, at 8 p.m. Benevolent Fund dance.

Advance Information

SELF-SERVICE DEVELOPMENT ASSOCIATION, Lesser Free Trade hall, Peter Street, Manchester, at 6 p.m. Mr. G. W. Proudfoot on "This Self-service Business."

SOCIETY OF COSMETIC CHEMISTS, Café Royal, Regent Street, London, W.1, at 7.30 p.m., on February 6, Annual dinner and dance. Ticket (price 38s. 6d.) available from Mrs. E. Millman, 2 Lovers Walk, London, N.3.

COMMERCIAL TELEVISION

January 11-17
LONDON

Alka-Seltzer (2). Anadin (4). Angier's junior aspirin (2). Aspro (7). Beecham's powders (3), pills (4). Christy's liquid lanoline (4). Dascote tablets. Delsey toilet tissue (3). Eno's Fruit Salt (2). Famel syrup (2). Fynnon salt. Germolene. Gleem tooth-paste (2). Handy Andies. Horlicks (3). Kleenex (2). Lantigen B. Lemskin hand cream (3). Loxene medicated shampoo (2). Mac throat sweets. Maclean's tooth-paste (3). Medic-Aire (2). Milk of Magnesia tablets (2). Moorland indigestion tablets. Nemakol. Owbridge's lung syrup. Penetrol. Phillips' tooth-paste (2). Phosferine (3). Digestif Rennies. Ribena (4). Silvikrin hair cream (2), pure. Supavite (2). Suregrip house gloves (2). Veno's cough mixture (3). Vykmix. "Water Lilies" shampoo (3). Zubes (2), cough mixture (2).

MIDLAND

Alka-Seltzer. Anadin (3). Angier's junior aspirin (3). Antussin (3). Aspro (7). Beecham's powders (3), pills (2). California syrup of figs (2). Dascote tablets. Daxaids. Diuronil. Fynnon salt. Gleem tooth-paste (2). Handy Andies. Horlicks (3). Kleenex (3). Lantigen B. Lemskin hand cream (3). Loxene medicated shampoo. Mac throat sweets (2). Maclean's tooth-paste (2). Milk of Magnesia (2). Mil-Par (2). Moorland indigestion tablets. Owbridge's lung syrup. Penetrol. Phosferine (3). Phyllosan (3). Digestif Rennies. Ribena (4). Scott's emulsion (2). Silvikrin hair cream (2), pure. Supavite (2). Suregrip house gloves (2). Veno's cough mixture (3). Vykmix. Zubes, cough mixture.

NORTH

Alka-Seltzer (2). Anadin (5). Aspro (9). Beecham's powders (3), pills (3). Bristow's lanoline shampoo (3). California syrup of figs (2). Cephos (4). Dascote tablets. Daxaids. Famel syrup (4). Fynnon salt. Gleem tooth-paste (2). Handy Andies (2). Horlicks (5). Kleenex (4). Lantigen B (2). Lemskin hand cream (3). Loxene medicated shampoo (3). Mac throat sweets. Maclean's tooth-paste (4). Mentholatum deep heat rub (3). Milk of Magnesia (2). Moorland indigestion tablets (4). Owbridge's lung syrup (2). Penetrol (2). Phosferine (4). Phyllosan (3). Ribena (4). Scott's emulsion (2). Setters. Silvikrin hair cream (2), pure, liquid shampoo. Supavite (2). Suregrip house gloves (2). Veno's cough mixture (3). Vosene medicated shampoo (2). Zubes, cough mixture.

SCOTLAND

Anadin (3). Askit (12). Aspro (7). Beecham's powders (3), pills (3). Dascote tablets. Famel syrup (2). Fynnon salt. Gleem tooth-paste (2). Handy Andies (2). Horlicks (2). Kleenex (2). Lantigen B. Lemskin hand cream (3). Loxene medicated shampoo (2). Mac throat sweets. Maclean's tooth-paste (2). Milk of Magnesia tablets (2). Moorland indigestion tablets (2). Nemakol. Owbridge's lung syrup (2). Penetrol. Phillips' tooth-paste (2). Phosferine. Digestif Rennies. Ribena (4). Silvikrin pure. Supavite (2). Suregrip house gloves (2). Veno's cough mixture (3). Vosene medicated shampoo. Vykmix. Zubes, cough mixture.

WALES

Alka-Seltzer. Anadin (4). Aspro (7). Beecham's powders (4). Famel syrup (2). Fynnon salt (3). Gleem tooth-paste. Handy Andies. Horlicks (3). Kleenex (2). Lantigen B. Loxene medicated shampoo. Mac throat sweets. Maclean's tooth-paste (3). Milk of Magnesia (2). tablets. Moorland indigestion tablets. Nemakol. Owbridge's lung syrup. Phyllosan (3). Digestif Rennies. Ribena (4). Silvikrin pure. Suregrip house gloves (2). Veno's cough mixture (3). Vykmix. Zubes (2).

SOUTH
Aspro (7). Beecham's powders. Bristow's lanoline shampoo (3). Famel syrup (2). Fynnon salt. Gleem tooth-paste (2). Handy Andies (2). Horlicks (3). Kleenex (3). Lantigen B. Loxene medicated shampoo (2). Milk of Magnesia (2). Moorland indigestion tablets. Nemakol (2). Ribena (4). Silvikrin pure. Suregrip house gloves (2). Veno's cough mixture (4). Vosene medicated shampoo. Zubes (2), cough mixture.

PRINT AND PUBLICITY PUBLICATIONS

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.

ARMOUR PHARMACEUTICAL COMPANY (ARMOUR CHEMICAL INDUSTRIES, LTD.), Hampden Park, Eastbourne, Sussex: "Arefac," "Chymar-Zon" (folders).

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8.: "Orasceron," "Neo-Mercazole," "Tyromist" antibiotic throat spray (folders).

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex: "Largactil" (12-p. booklet); "Perolysen," "Phensedyl" (information cards); "Avomine," "Largaetil," "Sonert-

gan" (leaflets); "Barbiturate Therapy" (65-p. book); "Penitriad" (folder).

Price Lists

CARLTON LABORATORIES (SOUTHERN), LTD., 2 Norfolk Square, Brighton, Sussex: Ethical products. ALFRED FRANKS & BARTLETT CO., LTD., 226 Gray's Inn Road, London, W.C.1: Bartex sunglasses, 1959.

THE SCHOLL MANUFACTURING CO., LTD., 182 St. John Street, London, E.C.1: Trade Price List, January 1.

Catalogues

ILFORD, LTD., Ilford, Essex: "Photo Finishing" (8vo., pp. 23); "Azoflex, 1958" (8vo., pp. 35).

Leaflets and Folders

ARTHUR H. COX & CO., LTD., Brighton: List of showcards and other display material.

WILLS

MR. W. BAMBROUGH, M.P.S., Glenayr, 128 Franks Road, Dovercourt, Essex, left £4,318 (£2,652 net).

MR. W. C. FRY, M.P.S., 4 West Park Avenue, Southborough, Kent, left £8,207 (£7,978 net).

MR. J. GILLEGHAN, M.P.S., 186A Selby Road, Halton, Leeds, left £18,191 (£18,114 net).

C. & D. WEEKLY LIST OF PRICES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 30 per cent.; † = Tax 60 per cent.

PURCHASE TAX EXEMPTIONS

(from December 31, 1958)

BRITISH SCHERING, LTD.

| | Each | I.R.P. |
|-------------------|--------|--------|
| Tyromist atomiser | 25 mls | 5 9 |
| | 24 | 3 9 R |
| | 100 | 12 6 R |
| | 500 | 60 0 R |

Distaval tablets 25 mgm.

| | Each | I.R.P. |
|------------------------|----------|--------|
| Distaval forte tablets | 100 mgm. | 5 6 R |
| | 100 | 33 6 R |

Distaval tablets 100 mgm.

| | Each | I.R.P. |
|-----------------|------|--------|
| LEV MEDIC, LTD. | 10 | 4 0 R |
| | 250 | 90 0 R |

LEV MEDIC, LTD.

Incidal tablets

| | Each | I.R.P. |
|--------------------------|------|---------|
| Anabolex tablets 25 mgm. | 25 | 20 0 |
| | 100 | 105 0 R |

Anabolex tablets 25 mgm.

| | Each | I.R.P. |
|-----|------|--------|
| 100 | 70 | 30 0 R |

LLOYD-HAMOL, LTD.

Anabolex tablets 25 mgm.

| | Each | I.R.P. |
|----|------|--------|
| 25 | 20 | 30 0 R |

Anabolex tablets 100 mgm.

| | Each | I.R.P. |
|-----|------|---------|
| 100 | 70 | 105 0 R |

ROUssel LABORATORIES, LTD.

Androstalone tablets

| | Each | I.R.P. |
|---------|------|--------|
| 25 mgm. | 12 | 12 0 |

Androstalone tablets 25 mgm.

| | Each | I.R.P. |
|-----|------|--------|
| 100 | 84 | 100 0 |

Pausandryl tablets

| | Each | I.R.P. |
|----|------|--------|
| 25 | 5 | 10 0 |

Pausandryl tablets 100

| | Each | I.R.P. |
|-----|------|--------|
| 100 | 19 | 4 0 |

OTHER PRICE CHANGES

J. & J. COLMAN, LTD. (from January 1)

Robinson's lemon barley

| | Doz. | I.R.P. |
|----------|------|--------|
| crystals | 12 2 | 1 3 A |

Robinade

| | Doz. | I.R.P. |
|------|------|--------|
| 12 2 | 1 3 | A |

F. C. CALVERT & CO., LTD. (from January 1)

Dento denture cleaner*

| | 11 0 | 1 6 A |
|--|------|-------|
|--|------|-------|

18 2

| | 2 6 A |
|--|-------|
|--|-------|

D. & W. GIBBS, LTD. (from December 29, 1958)

Pears transparent soap*

| | 8 2 | 1 0 A |
|--|-----|-------|
|--|-----|-------|

L. LEICHNER (LONDON), LTD. (from January 1)

Leichner greasepaint form C

| | 9 6 | 1 8 A |
|--|-----|-------|
|--|-----|-------|

standard stick†

| | 14 0 | 2 3 A |
|--|------|-------|
|--|------|-------|

form H carmine liner†

| | 9 6 | 1 8 A |
|--|-----|-------|
|--|-----|-------|

form E short blunt liner†

| | 6 8 | 1 2 A |
|--|-----|-------|
|--|-----|-------|

form G short pointed liner†

| | 6 8 | 1 2 A |
|--|-----|-------|
|--|-----|-------|

SCHOLL MFG. CO., LTD. (from January 1)

D. Scholl's Zino pads*

| | 8 0 | 1 3 A |
|--|-----|-------|
|--|-----|-------|

14 0

| | 2 3 A |
|--|-------|
|--|-------|

Tarso pads

| | 8 0 | 1 0 A |
|--|-----|-------|
|--|-----|-------|

felt pads

| | 8 0 | 1 0 A |
|--|-----|-------|
|--|-----|-------|

"Kurotex" pads

| | 9 0 | 1 3 A |
|--|-----|-------|
|--|-----|-------|

adhesive foam (Molfoam)

| | 12 0 | 1 6 A |
|--|------|-------|
|--|------|-------|

20 0

| | 2 6 A |
|--|-------|
|--|-------|

chiropody felt

| | 12 0 | 1 6 A |
|--|------|-------|
|--|------|-------|

animal wool

| | 8 0 | 1 0 A |
|--|-----|-------|
|--|-----|-------|

bath salts*

| | 10 6 | 1 8 A |
|--|------|-------|
|--|------|-------|

21 0

| | 3 3 A |
|--|-------|
|--|-------|

"Bromidrosil" powder*

| | 24 0 | 3 9 A |
|--|------|-------|
|--|------|-------|

bunion lotion*

| | 21 0 | 3 3 A |
|--|------|-------|
|--|------|-------|

callous salve*

| | 21 0 | 3 3 A |
|--|------|-------|
|--|------|-------|

corn salve*

| | 21 0 | 3 3 A |
|--|------|-------|
|--|------|-------|

P.A.T.A. LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

LUMA PRODUCTS, LTD. (from January 1)

Luma anti-rheumatic compound*

| | 34 0 | 5 3 A |
|--|------|-------|
|--|------|-------|

52 0

| | 8 6 A |
|--|-------|
|--|-------|

UNICHEM, LTD.

Liver-tone tablets*

| | 25 | 11 8 |
|--|----|------|
|--|----|------|

19 0

| | 9 9 R |
|--|-------|
|--|-------|

veterinary solution*

| | 30 mils | 5 5 R |
|--|---------|-------|
|--|---------|-------|

100 mils

| | 14 5 R |
|--|--------|
|--|--------|

NEW PRODUCTS AND PACKS

BAYER PRODUCTS, LTD.

Hexopal tablets*

| | Each | I.R.P. |
|----------|------|--------|
| 200 mgm. | 40 | 7 10 |

250

| | 42 0 | 75 7 |
|--|------|------|
|--|------|------|

11. BRONNLEY & CO., LTD.

Apothecary jars and soaps*

| | 8 6 |
|--|-----|
|--|-----|

DISTILLERS CO. (BIOCHEMICALS), LTD.

Distamin injectors

| | 4 mils | 25 | 47 11 |
|--|--------|----|-------|
|--|--------|----|-------|

D. & W. GIBBS, LTD.

Pears new baby powder*

| | 2 0 |
|--|-----|
|--|-----|

IMPERIAL CHEMICAL INDUSTRIES, LTD.

Doz.

Mezuran tablets*

| | 25 | 38 0 | 5 8 1 |
|--|----|------|-------|
|--|----|------|-------|

500

| | 480 0 | 72 0 |
|--|-------|------|
|--|-------|------|

SCOTT & BOWNE, LTD.

Oxydent in polythene bottle*

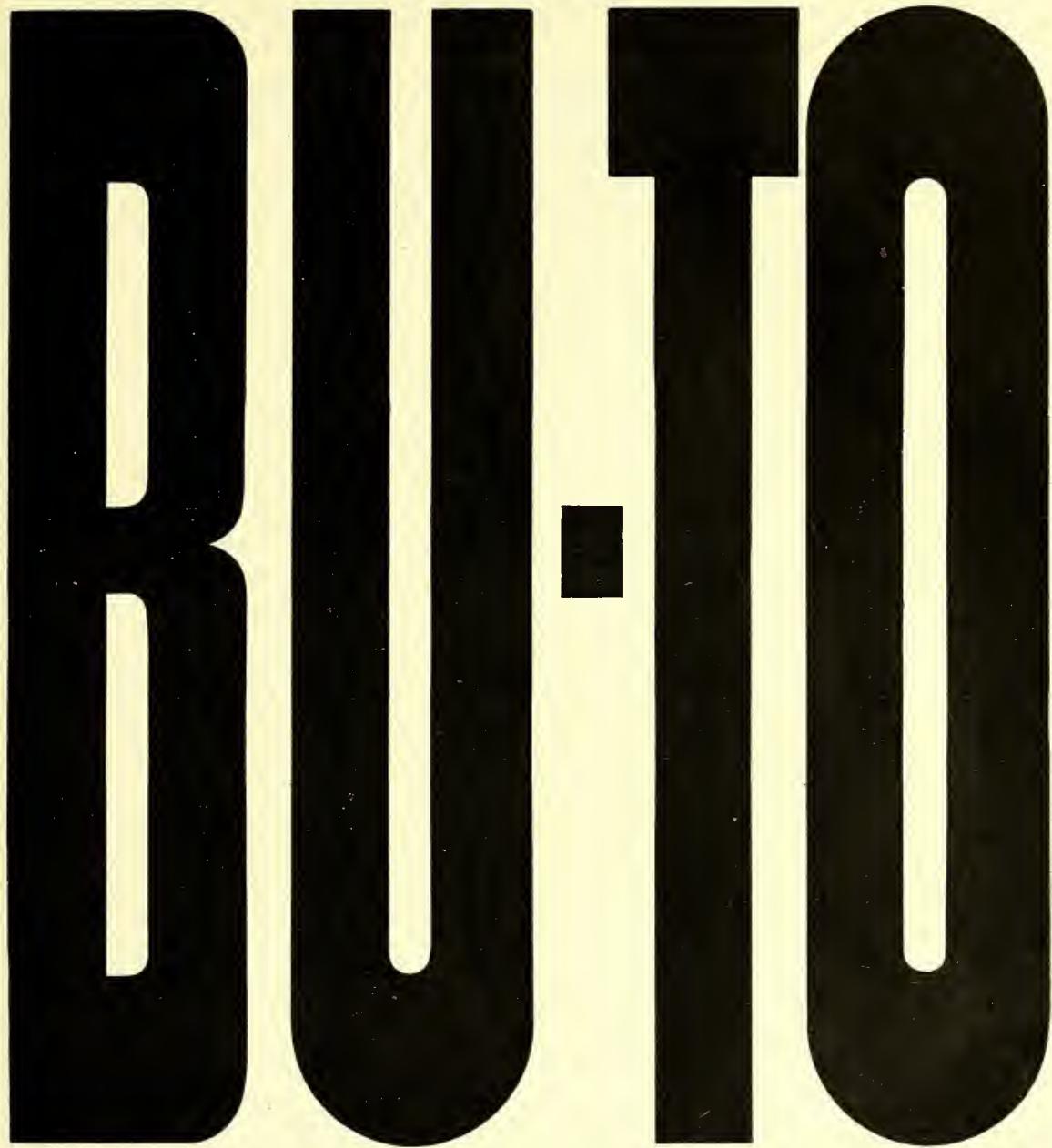
| | small | 1 9 |
|--|-------|-----|
|--|-------|-----|

large

| | 3 3 |
|--|-----|
|--|-----|

a HAPPY NEW YEAR to you all

and a SPECIAL ANNOUNCEMENT regarding



ROSE SCENTED HAIR REMOVER 2/4 · 3/3 · 7/-

1958 was by far the best ever — "Thank you!" — and encouraged by the demand for BU-TO

WE PLAN TO ADVANCE ON THREE FRONTS THIS YEAR

1. Is still secret.
2. We shall be trebling our advertising.
3. Many MORE BONUS DISCOUNTS TO THE TRADE.

There is much more Hair Remover selling nowadays during the January Dancing Season than ever before, so we will start off right away with an extra 5% on all orders for BU-TO received in January.

5% EXTRA IF YOU BUY BU-TO

BIOMETICA LTD., 1 ELSTREE WAY, BOREHAM WOOD, HERTS. Elstree 3520

Schweppes Group

An announcement of policy relating to the retail prices of fruit drinks marketed under the brand names:

Schweppes, Suncrush, Kia-Ora and Rose's

Some retailers desire the producers of branded fruit drinks to maintain fixed retail prices, other retailers prefer to handle brands which may be varied in price to meet local conditions. **Schweppes Limited and the Rose · Kia-Ora Sales Company** accordingly announce that the following retail prices will be effective from 1st January, 1959:—

| <u>Recommended retail prices</u> | <u>Fixed retail prices</u> | <u>Fixed retail prices</u> |
|--|---|--|
| SUNCRUSH | SCHWEPPES | ROSE'S |
| Orange Drink..... 3/3 per bot. Lemon Drink..... 3/3 per bot. Grapefruit Drink 3/3 per bot. Lemon Barley..... 3/3 per bot. | Golden Orange.... 3/3 per bot. | Lime Juice Cordial 3/6 per bot. Lime Juice Cordial 2/- per $\frac{1}{2}$ bot. |
| KIA-ORA | SCHWEPPES | ROSE'S |
| Orange Squash..... 3/3 per bot. Lemon Squash..... 3/3 per bot. Grapefruit Squash 3/3 per bot. | Orange Squash..... 3/3 per bot. Lemon Squash..... 3/3 per bot. Grapefruit Squash 3/3 per bot. Lemon Barley..... 3/3 per bot. | Orange Squash..... 3/3 per bot. Orange Squash.... 1/10 per $\frac{1}{2}$ bot. Lemon Squash..... 3/3 per bot. Grapefruit Squash 3/3 per bot. Lemon Barley..... 3/3 per bot. |
| KIA-ORA | SCHWEPPES non-alcoholic | ROSE'S non-alcoholic |
| Children's Orange Squash 2/- per $\frac{1}{2}$ bot. | Ginger Cordial..... 3/- per bot. Peppermint Cordial 3/- per bot. Blackcurrant 3/- per bot. Flavour Cordial | Ginger Cordial..... 3/- per bot. Peppermint Cordial 3/- per bot. Blackcurrant 3/- per bot. Flavour Cordial |

The retail trade will be fully supported in the maintenance of the "fixed" retail prices per bottle announced above, but in respect of the "recommended" retail prices, it is recognised that members of the trade may wish to determine their retail price according to their respective needs and sales policies. The products of both Companies will continue to be supported by extensive national and local advertising.

FIGGERROLLS

will help to increase your sales of
STARCH-REDUCED ROLLS

• • • • • • • • • • • • • • •

A NEW FLAVOUR FOR DIABETICS AND SLIMMERS

Diabetics and slimmers alike will welcome the appetising whole wheat flavour of starch-reduced Figgerrolls—crisp and delicious, they are a delicious break in the monotony of an ordinary low starch diet. Figgerrolls are made with nutritionally valuable fresh wheat gluten, and they are enriched with specially processed wheat germ and the most nutritious parts of the bran. In the manufacture of Figgerrolls every care is taken to ensure that each roll contains the stated amount of protein.



ANALYSIS

For diabetic or medical purposes

| | Gm./oz. |
|-------------------------|---------|
| Protein (N X 5.7) | 11.5 |
| Carbohydrates | 11.7 |
| Fat | 1.4 |
| Salt | 0.6 |

Calories 107 per oz.
Four Figgerrolls
weigh approx. 1 oz.

TRADE TERMS

12 x 30 roll packs 24/- per case
24 x 10 roll packs 23/- per case
Order from your usual wholesaler

WHITWORTH'S
STARCH-REDUCED
FIGGERROLLS

WHITWORTHS HOLDINGS LIMITED · WELLINGBOROUGH · NORTHANTS

for **ASTHMA** and Allied Chest Complaints, you can safely recommend—

RIDDOVYDRIN ASTHMA INHALANT

—A BIOLOGICAL PREPARATION CONTAINING VITAMIN C

RIDDOVYDRIN gives Rapid and Prolonged Relief to the most Chronic Cases.

SAMPLES AND LITERATURE FREE ON REQUEST

TOGETHER WITH

RIDDOPAG PLASTIC INHALER

WITH OR WITHOUT MASK

— UNBREAKABLE —

Gives a Fine Dry Vapour Free of Drops

MAY BE SUPPLIED ON E.C.10 FORMS

40% DISCOUNT ALLOWED ON ALL INHALERS
RETAILING FROM 9/6d. TO 58/6 TAX FREE



RIDDELL PRODUCTS LTD.

HEAD OFFICE

RIDDELL HOUSE,
10-14 DUNBRIDGE STREET, LONDON, E.2

Phone : SHOreditch 7254/6

BRANCH OFFICE:

11 MANSFIELD CHAMBERS,
ST. ANN'S SQUARE, MANCHESTER, 2

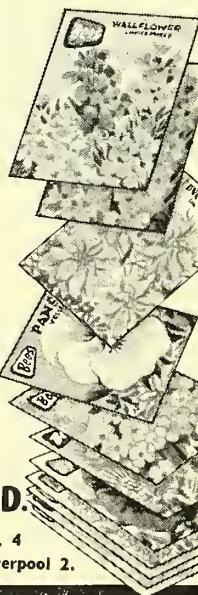
Phone: BLA. 2894

**NOW is the Time —
to FIX UP YOUR AGENCY for
Bees SEEDS that GROW
— BEST SELLER AMONG SEEDS**

Many millions of packets of these renowned seeds are sold over the counter to home gardeners every season. YOUR customers should be buying them from YOUR shop.

- You pay only for what you sell, because Bees Seeds That Grow are on sale or return.
- They come in beautifully presented packets printed in full colour to retail at 3d. and 6d. per packet (Peas and Beans 6d. and 1/-)
- Bees Seeds That Grow are extensively advertised throughout the selling season.

APPLICABLE TO U.K. ONLY



Pin this Advertisement
to Your Note Head —
FOR
AGENCY TERMS

BEES LTD.

Agency Dept. 4
The Corn Exchange, Liverpool 2.

NEW!

COLBY NYLITE*

NYLITE is the new lightweight Nylon Elastic Yarn stocking with the *super-soft* finish.

NYLITE gives firm support and its unusually soft texture makes it extra comfortable to wear. 2-way stretch and seamless, this hose has a smooth, matt look and may be worn confidently without overhose.

NYLITE may be supplied against N.H.S. prescriptions

Trade price 35/6 per pair

In normal stocking sizes 8½, 9, 9½, 10, 10½

Order a stock of this important new stocking now. Samples on request.

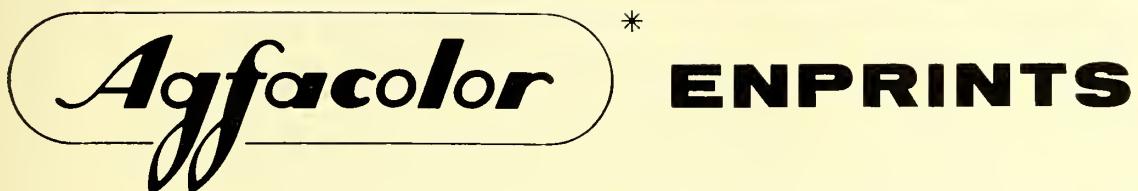
COLBY PRODUCTS LIMITED

314 EUSTON ROAD, LONDON, NW1.

Trade Mark *



WONDERFUL! NEW! SUPERB!



THIS SIZE

Here's terrific news for all your colour-enthusiast customers. They can now have superb top quality Agfacolor ENPRINTS made from their colour negatives in the following sizes:

Available from the 1st January

3½" x 5"

from 35mm and oblong negatives

2'9 PER COPY

3½" x 3½"

from square negatives

2'9 PER COPY

AGFACOLOR CONTACT PRINTS AND A WIDE SELECTION
OF ENLARGEMENT SIZES ARE ALSO AVAILABLE

* Registered Trade Mark
of the Manufacturers
Agfa A.G., Leverkusen/Western Germany.

NOTE YOU SHOULD SEND ORDERS FOR AGFACOLOR developing, printing and
enlarging to one of the following accredited Agfacolor processing stations:

FENCOLOR LABORATORY
11a Newmarket Road,
Cambridge.
Tel: Cambridge 54507.

FIELDING & VAREY LTD.
50 Thomas Road,
London, E.14.
Tel: East 3272.

JONES & BAILEY LTD.
4 Mount Mills, Seward Street,
London, E.C.1.
Tel: Clerkenwell 3241

MILLCOLOR LTD.
48/49 John Street,
Brighton, I.
Tel: Brighton 62125

NORFOLK COLOUR LABORATORIES
58 Westgate,
Hunstanton, Norfolk.
Tel: Hunstanton 277.

HAMILTON TAIT LTD.
2/8 Millar Crescent,
P.O. Box 501, Edinburgh 10.
Tel: Edinburgh 54836.

TEMPO LABORATORIES LTD.
80/82 St. John's Road,
Tunbridge Wells, Kent.
Tel: Tunbridge Wells 21019

TURNERS (Colorfoto) LTD.
Camera House, Pink Lane,
Newcastle-upon-Tyne, I.
Tel: Newcastle 25391.

STEEL SHELVING

72" HIGH 34" WIDE 12" DEEP



- Brand new—Manufactured in our own works.
- Shelves adjustable every inch.
- Heavy gauge shelves will carry 400 lb. each.
- 6 shelves per bay—Extra shelves 8/- each.
- Stove enamelled dark green.
- Quantity discounts.
- Also available in white at £5 per bay.

DELIVERED FREE £3 15s.

Ready for Erection in England, Scotland and Wales

ALL OTHER SIZES available at equally keen prices

N. C. BROWN LTD.

SHELVING DIVISION
HEYWOOD, LANCASHIRE
TELEPHONE: 69018 (3 LINES)

Enterofagos

POLYVALENT INTESTINAL BACTERIOPHAGE



**The BIOLOGICAL treatment for
most intestinal, para-intestinal,
kidney and bladder infections**

ENTEROFAGOS is one of the series of M.B.L. preparations which enjoy the confidence of the Medical profession in this country and overseas. It is of established therapeutic value in the treatment of infective conditions of the gastro-intestinal tract, kidneys and bladder.

ENTEROFAGOS contains the active bacteriophages against Staphylococci, Streptococci, B. coli, B. Typhosus, B. paratyphosus, B. dysenteriae and Enterococci. It can be given to adults or children without fear of harmful reactions, and this combination of efficacy and safety makes ENTEROFAGOS the ideal treatment for the infective conditions indicated.

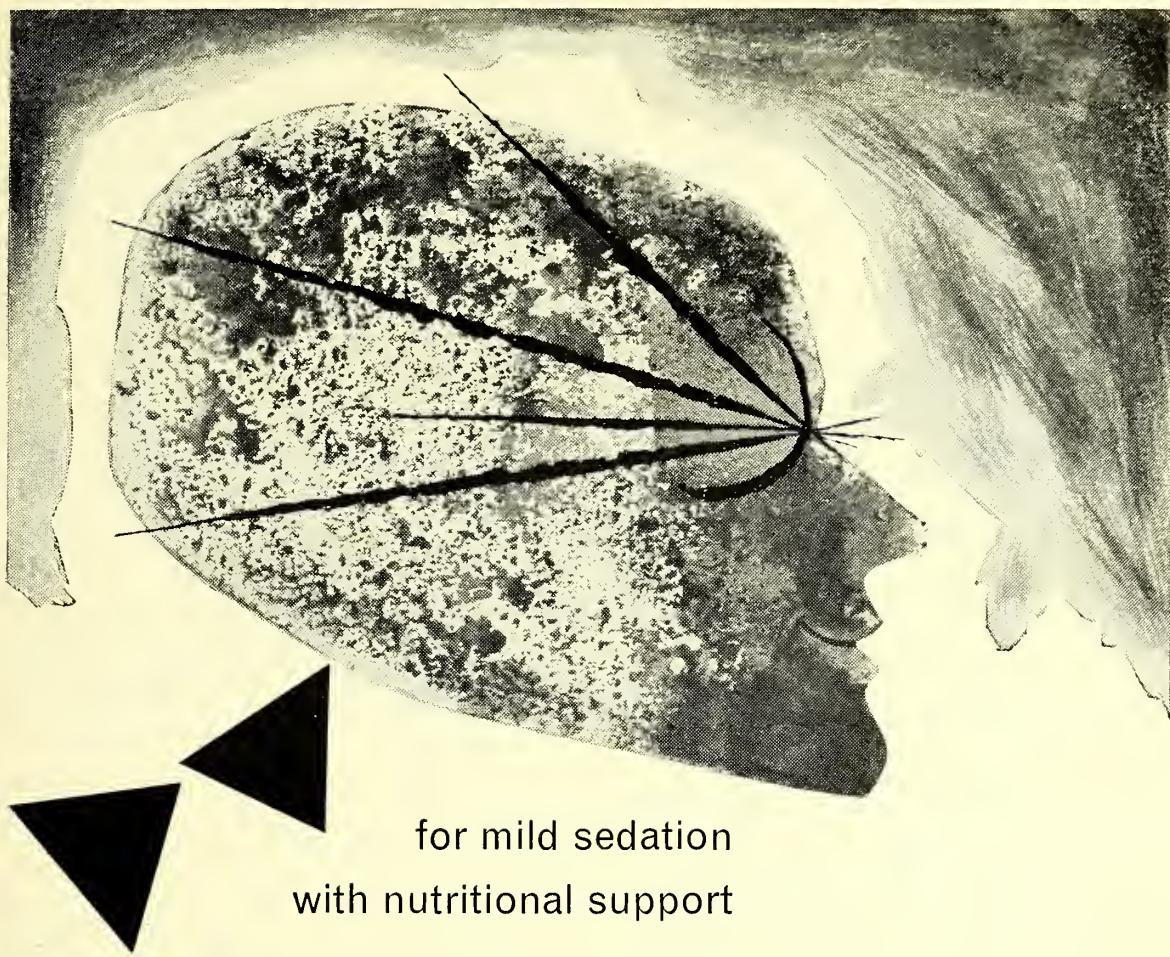
The preparation is contained in ampoules to be taken orally according to the instructions supplied.

INDICATIONS

With ENTEROFAGOS most cases of Diarrhoea respond rapidly to treatment. Colitis, Enteritis, Enterocolitis, Typhoid and Paratyphoid Fevers, Bacillary Dysentery, B. Coli Infections, Food Poisoning are equally responsive to its treatment.

MEDICO-BIOLOGICAL LABORATORIES LTD.

CARGREEN ROAD
SOUTH NORWOOD
LONDON, S.E.25



The debilitated patient, whether recovering from severe illness or operation or suffering from a chronic disease, is greatly benefited by the addition of nutritionally generous supplements of vitamins of the B complex and ascorbic acid. Such patients often need also mild sedation.

A combination of the necessary vitamins with a relatively low dose of phenobarbitone is now available as Tropenal.

FORMULA

Each tablet contains

| | |
|-----------------------------|--------------------------------|
| Aneurine hydrochloride B.P. | 5 mg. |
| Riboflavin B.P. . . | 5 mg. |
| Pyridoxine B.P.C. . . | 2 mg. |
| Nicotinamide B.P. . . | 15 mg. |
| Ascorbic acid B.P. . . | 50 mg. |
| Phenobarbitone B.P. . . | 16 mg. ($\frac{1}{4}$ gr.) |

In designing the formula, it was necessary to bear in mind the known antagonism between barbiturates and the vitamins of the B complex: also the theoretical possibility that the effects might cancel each other out. But preliminary trials have shown that on account of the varying speeds of action and other factors not fully understood, the combination is clinically effective.

DOSAGE

One to four tablets daily.
Tablets in packs of 100 and 500.

For full details of prices and trade terms write for latest copy of the Vitamins Ltd., Price List.

Tropenal

INDICATIONS

- (1) Anxiety states with restlessness, especially associated with hypertension, alcoholic withdrawal or peptic ulcer.
- (2) Progressive illness in which insomnia is associated with a need for the greatest nutritional support—e.g. congestive heart disease, cachectic states.
- (3) During convalescence, to speed recovery by promoting good appetite and a quiet frame of mind associated with nutritional adequacy.
- (4) Insomnia not induced by pain.



VITAMINS LIMITED

(DEPT. A.A.8 UPPER MALL, LONDON, W.6

BEST-SELLERS
*ALL
the year round!*

“Sun-tang”

‘NIAGARA’
Blackcurrant Syrup

Sun-tang—made from whole oranges, sugar and glucose—contains Vitamin C, essential to good health

Niagara—made from Blackcurrant juice and sugar—rich in Vitamin C—the perfect drink for young and old alike.

More customers are asking for both these delicious, health-giving drinks. Meet the extra demand by ordering ample stocks NOW and make sure of year-round profits.

BARNETT & FOSTER LTD.
QUEENSBRIDGE ROAD, LONDON, E.8. Tel.: CLissold 7132

**Keep it
DARK
with
SHADEINE**

Perfectly Harmless

Still the best hair tint. In all natural Shades. Stocked by all wholesalers. Trade Prices: 1 oz., 24/9 per doz., 2 oz., 36/- per doz. Purchase Tax 60%. Retail Prices: 4/- and 5/9½ per bottle respectively.

GOLDEN SHADEINE—2 oz. size at 24/9 per doz. Purchase Tax 60%, Retailing 4/- per bottle.

THE SHADEINE CO. LTD.

49 CHURCHFIELD ROAD, ACTON, LONDON, W.3

YOUR
SALES
ARE
ASSURED
IF YOU
STOCK
SHADEINE



CORKS

PRESCRIPTION BOTTLES

require top grade cork stoppers which permit no leakage.

Chemists who know from experience, continually specify Robinson Corks—the first class quality never varies.

*Write for full details
and prices to:—*

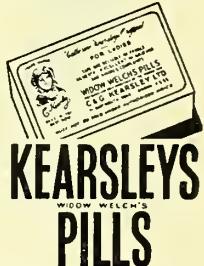


ROBINSON BROS

CORK GROWERS LTD.

21 HORTON STREET · HALIFAX
London Address: 54-62, Regent Street, London, W.1. Tel: GER 3965/8

**OVER 1'9 D
PROFIT
IN THE TILL**



Over 1/9 BOX PROFIT by ordering 1 dozen 6/5 size. Bonus given on every dozen (13). It pays to push this size.

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AMBYTHENE
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MEDICINE MEASURES
UNBREAKABLE—ACCURATE
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HELP FOR THE WEAKLY LAMB

'Ovigest' BRAND Elixir gives sheep farmers a new, simple and effective way of fostering the weakly new-born lamb, the "odd lamb out" that fails to make progress. It is an enzymatic digest of muscle protein, to which 10% glucose has been added. Its function is to restore and maintain the body heat and to supply the nutrients essential to development—all without taxing the exhausted lamb's digestive system.

'Ovigest' is issued in 25 c.c. bottles, and the contents of one bottle form the recommended dose. It can be spoon-fed, mixed with an equal quantity of warm milk and bottle-fed, or in

emergency given by injection. The administration can, of course, be repeated if necessary. Severe climatic conditions and unthrifty ewes give rise to a number of weakly new-born lambs each season. Now, for the first time, you can offer the sheep farmer a practical and inexpensive way of enabling these lambs to make normal progress. Ordering a supply well before lambing starts will ensure that you and your customers gain full benefit from the introduction of 'Ovigest'.

Packed in boxes of 12 individually-cartoned 25 c.c. bottles.

Weakly lambs need

'OVIGEST'
BRAND
ELIXIR

Produced at the Wellcome Research Laboratories



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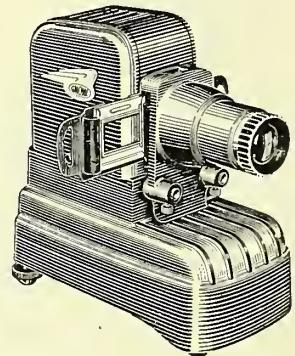
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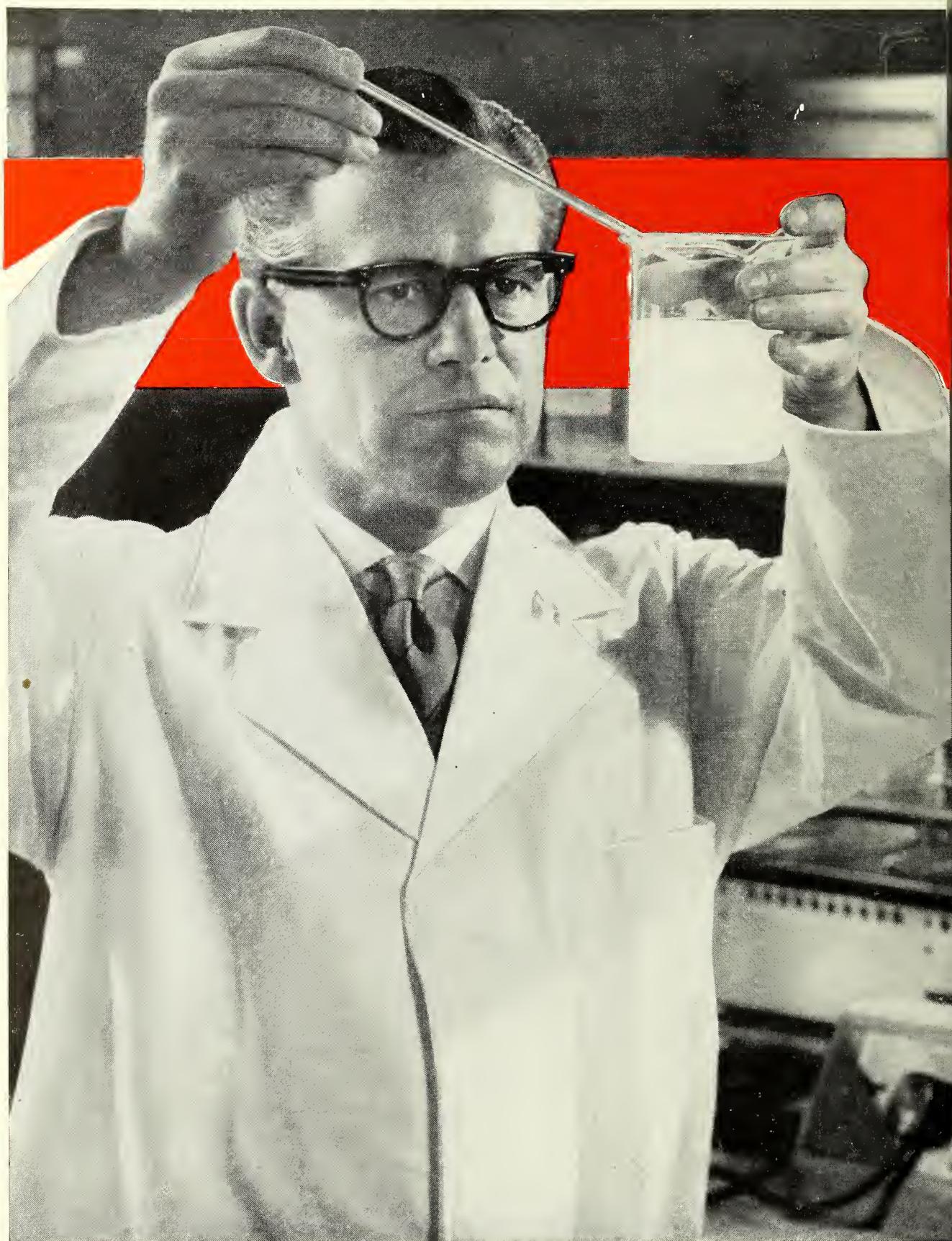
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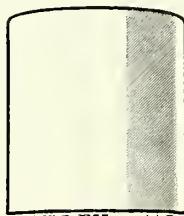
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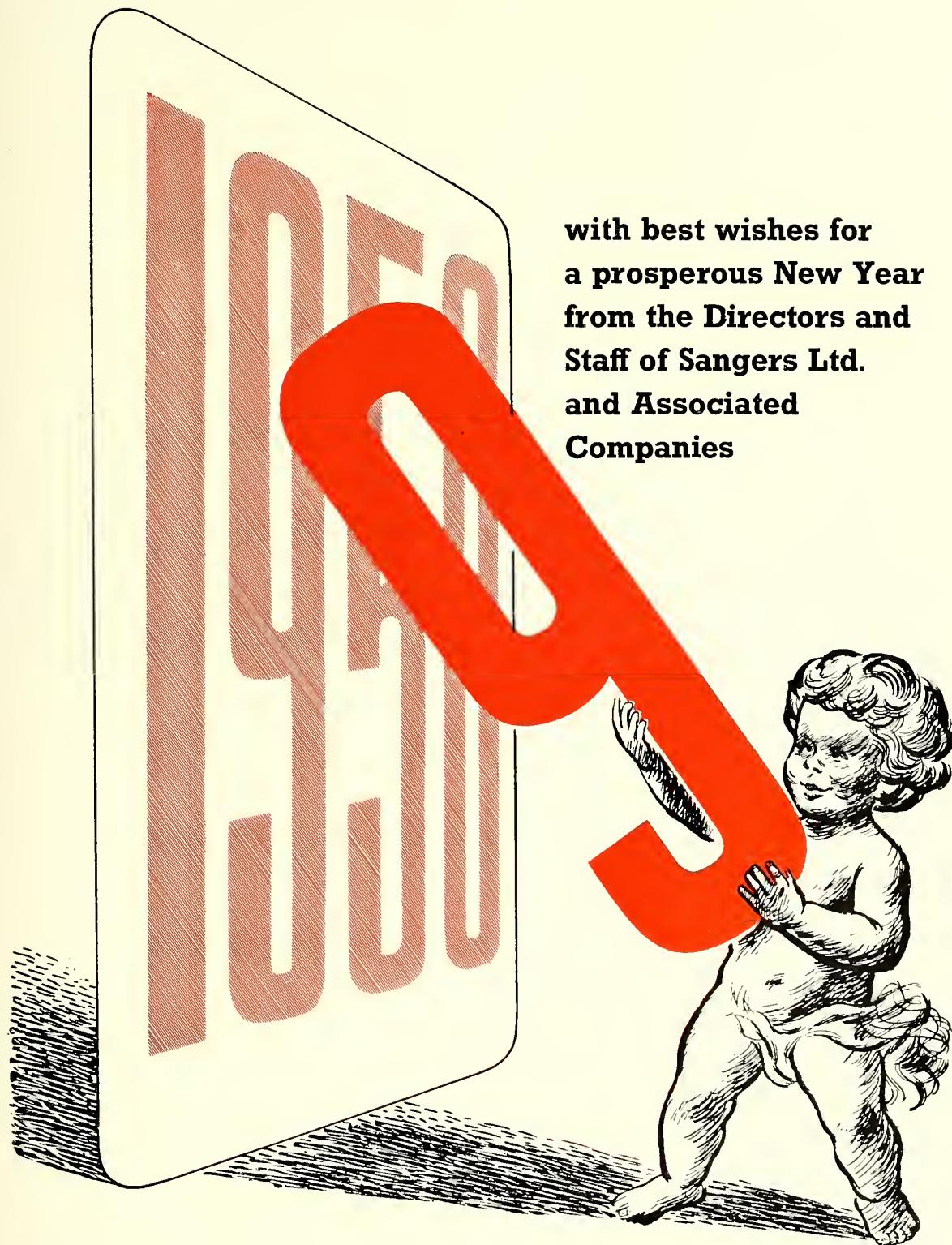
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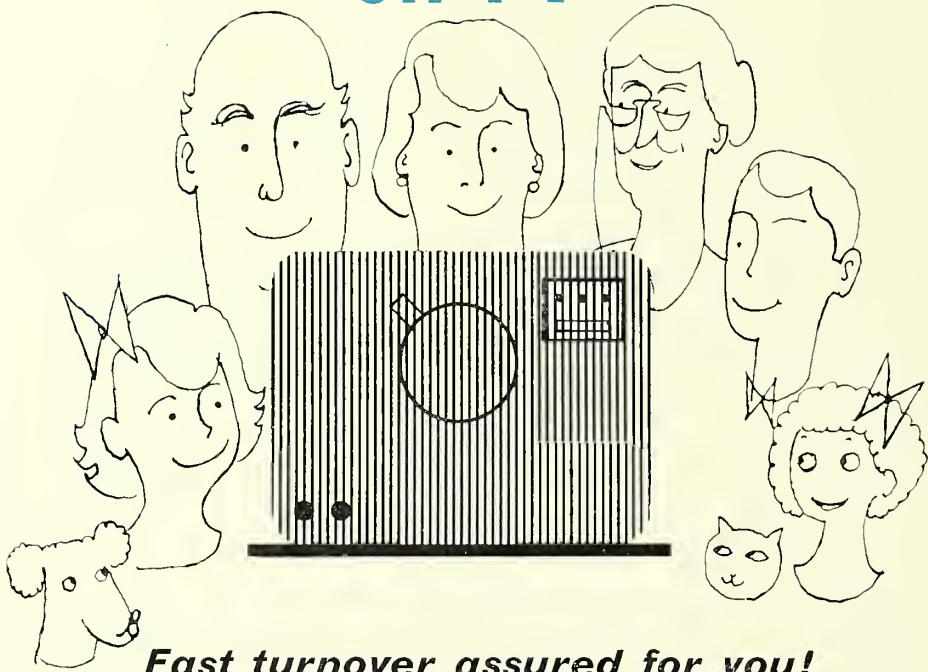
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Millions will see Handy Andies on TV



Fast turnover assured for you!

Handy Andies are to be promoted on every television station in the country. From January right through the peak months for colds. Viewers will see for themselves that Handy Andies are the best tissue handkerchiefs for colds.

- ★ Handy Andies mean extra business for you.
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- ★ Display them prominently in their special cartons—they sell themselves!
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**MAKE SURE YOU PROFIT FULLY FROM THE BOWATER-SCOTT RANGE
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A BOWATER-SCOTT PRODUCT

MADE IN ENGLAND

Order today through your usual wholesaler

DISPLAY AND SELL THROUGH ABC TV

January, with its peak TV audiences, is a period of great selling opportunities. ABC TELEVISION has introduced these special advertisements in *your* trade journal to help you get extra sales of those products advertised on the ABC Network over the immediate post-Christmas period. The products listed below are those in your shop which are receiving TV support in the North and Midlands over the weekend January 10/11. Get extra sales benefit from this TV advertising. Sell more of these products by preparing your window and counter displays for the week January 12th—17th now.

| | | | |
|--|-----------------------------|-----------------------------|-----------------------------|
| ALKA SELTZER | <i>North & Midlands</i> | SUPAVITE | <i>North & Midlands</i> |
| ANADIN | <i>North & Midlands</i> | THRU | <i>North & Midlands</i> |
| ASPRO | <i>North & Midlands</i> | VENO'S Cough Mixture | <i>North & Midlands</i> |
| BEECHAM POWDERS | <i>North & Midlands</i> | CAMAY | <i>North & Midlands</i> |
| CALIFORNIA SYRUP OF FIGS | <i>North & Midlands</i> | DRENE SHAMPOO | <i>Midlands</i> |
| CEPHOS | <i>North</i> | GILLETTE | <i>North & Midlands</i> |
| DAXAIDS | <i>North & Midlands</i> | KLEENEX | <i>North & Midlands</i> |
| FAMEL COUGH SYRUP | <i>North & Midlands</i> | LEMSKIN | <i>North & Midlands</i> |
| FENNINGS "Little Healers" & "Fever Mixture" | <i>North & Midlands</i> | MACLEANS Toothpaste | <i>North & Midlands</i> |
| HALIBORANGE TABLETS | <i>North & Midlands</i> | MAX FACTOR | <i>North & Midlands</i> |
| MENTHOLATUM Deep Heat Rub | <i>North</i> | ROSEDALE "Lanospray" | <i>North & Midlands</i> |
| MILK OF MAGNESIA | <i>North & Midlands</i> | SHAVEX | <i>North & Midlands</i> |
| MOORLANDS Indigestion Tablets | <i>North & Midlands</i> | SILVIKRIN HAIR CREAM | <i>North & Midlands</i> |
| NERVONE | <i>North & Midlands</i> | STERADENT | <i>North & Midlands</i> |
| PENETROL INHALENT | <i>North & Midlands</i> | BOURNVITA | <i>Midlands</i> |
| PHENSIC | <i>North & Midlands</i> | HALL'S WINE | <i>North & Midlands</i> |
| PHOSFERINE | <i>North & Midlands</i> | HORLICKS | <i>North & Midlands</i> |
| SANATOGEN | <i>North & Midlands</i> | LUCOZADE | <i>North</i> |
| | | RIBENA | <i>North & Midlands</i> |

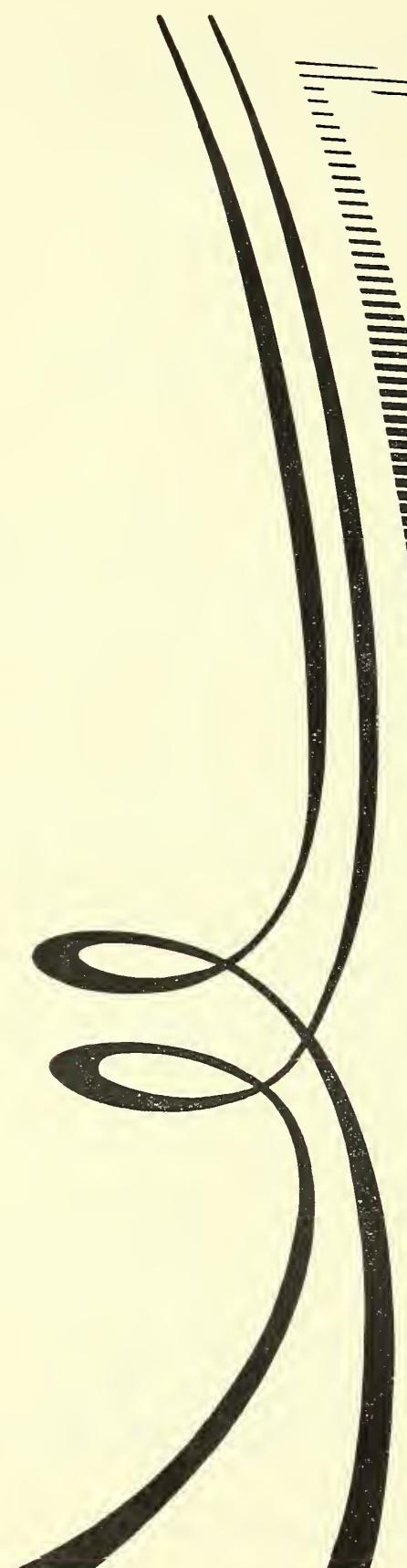
January peak viewing figures mean that more customers will have seen these products advertised than at any other time of the year!



ABC TELEVISION NETWORK

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WEEKEND PROGRAMME COMPANY IN THE NORTH AND MIDLANDS



Knoll® Fine Chemicals

enjoy world-wide
reputation

Barbonin®

(6,7-dioethoxy-1-[3,4-dioethoxy-benzyl]-
isochinoline)

Bromoisovalerylurea (Bromvaletone B.P.C.)

Caffeine Alkaloid and salts

Ephedrine, its salts and derivatives

Papaverine and its salts

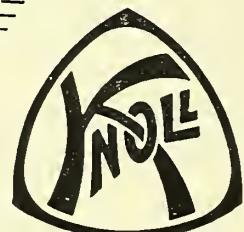
Pentamethylenetetrazol (Leptazol B.P.)

Theophylline, its salts and derivatives

Theophylline Ethylene Diamine

Knoll® Fine Chemicals are
distinguished by their purity
and meet the requirements
of the prominent
pharmacopœias.

Marketed by
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1, Broad Street Place
LONDON, E.C.2



KNOLL A.-G. • Chemical Works • Ludwigshafen-on-Rhine

ROTOsan

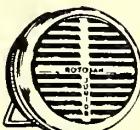
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★ FOR LIMITED PERIOD
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BONUS

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|--|-----------------------------------|
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| Made up from any of the ROTOSan products range | |
| 7 1/2% BONUS | ON ORDERS FOR 8 DOZEN |
| Made up from any of the ROTOSan products range | |
| 3 3/4% BONUS | ON ORDERS FOR 4 DOZEN |
| Made up from any of the ROTOSan products range | |



ROTOsan the products with an all-year-through appeal to housewives . . . ROTOfresh the modern toilet fitting which made "sales history" last year . . . take advantage of this NEW splendid bonus offer, make up YOUR order from the full ROTOSan range . . . fine products with a big future for YOU!

BIGGER-THAN-EVER POTENT ADVERTISING . . . will appear in the leading National Newspapers and in the Women's Magazine Press, directed to the housewife. ROTOSan will be in bigger-than-ever demand this year.

**ORDER FROM THE
FULL ROTOSAN RANGE**

| | RETAIL | TRADE PRICE PER DOZ. | P.T. |
|--------------------------------------|--------|-------------------------|------|
| ROTOfresh Toilet Hygiene Complete | 1/8 | 13/- | 5d. |
| Refills | 1/3 | 10/- | — |
| ROTOsan Air Conditioner Discs | 1/3 | 10/- | — |
| Juniors | 2/6 | 18/6 | 1/3 |
| Automatics | 5/6 | 41/6 | 3/9 |
| Crystals (Superfume Bags) | 2/- | 16/- | — |
| Channel Blocks (3 per pkt.) | 1/6 | 12/- | — |
| ROTOcubes (Large) | 1/3 | 10/- | — |



Full particulars from W. & F. WALKER LTD., KIRKBY, LIVERPOOL

OR FROM OUR
REPRESENTATIVES

The Anglican Bishops endorse Family Planning

"Family planning, in such ways as are mutually acceptable to husband and wife in Christian conscience . . . is a right and important factor in Christian family life."

REPORT OF THE NINTH LAMBETH CONFERENCE
(1958)

Commenting on the report, the Archbishop of Canterbury said:

"...there is clearly a divine obligation to plan your family and not have them by accident."

Asked if he personally advocated family planning, the Archbishop replied:

"What the conference says is that it is a necessity, and I agree."

With these words, the 310 Anglican

Bishops have given their blessing to the principles of family planning. In setting forth this enlightened point of view, they have removed the confusion and controversy which have surrounded the subject for years. Their wise and human approach will be endorsed by thoughtful people everywhere.



*The wording on this strip
conforms with the code of ethics
of the Pharmaceutical Society.
(Size of strip: 7" x 2")*

The part you play...

Millions of new users are being converted to modern DUREX methods of family planning by our "Planned Families" booklet, extensively advertised in newspapers and magazines.

Write for the discreet "Family Planning Requisites" shelf strip (No. 30), which shows that you are a DUREX stockist. It will bring you extra business—so put it on display.

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SHOP AND HOUSE in Kennington for sale, freehold with vacant possession. Facing large newly-built housing estate in thickly populated district. Ideal position for chemist. Apply the Kaymet Company, Sylvan Grove, S.E.15. C 1912

APPOINTMENTS

ANCOATS HOSPITAL, MANCHESTER, 4

Pharmacist

Applications are invited for the above post. Whitley Council Scale and Conditions. Applications, stating age and experience, with names of two referees, to the General Superintendent (Dept. A.K.). C 8752

BROOKWOOD HOSPITAL, KNAPHILL, WOKING

Assistant-in-Dispensing

Applications are invited for the above post. The successful candidate will be required to work under the supervision of the Chief Pharmacist, who is responsible for the preparation and issue of drugs and dressings for about 1,750 patients. Salary scale £170 p.a. at age 16 years rising to £375 at age 22 years or over rising to a maximum of £490 p.a. (plus £20 p.a. for an approved qualification).

Professional and Technical Council B of Whitley Council conditions apply to the appointment which is subject to the provision of the National Health Service Superannuation Regulations.

The successful candidate will be required to pass a medical examination.

Accommodation available for female candidate for which a charge of £2 8s. per week will be made.

Applications giving particulars of age, experience and qualifications, together with names of two referees to the Physician Superintendent, as soon as possible. C 417

BURY AND ROSENDALE HOSPITAL MANAGEMENT COMMITTEE, BURY GENERAL HOSPITAL

Chief Pharmacist

Applications are invited for the post of Chief Pharmacist at the above Hospital. The post is graded as Category III, the salary for which is £785 rising by increments to £1,070. The conditions of service are in accordance with those laid down by the appropriate Health Services Whitley Council. Apply, stating full details of experience, etc., and names of two referees to H. Wilkinson, Group Secretary, by not later than January 17, 1959. C 8746

NOTTINGHAM No. 2 HOSPITAL MANAGEMENT COMMITTEE, NOTTINGHAM CITY HOSPITAL (811 beds)

Deputy Chief Pharmacist (Category V)

Required at the above hospital. Applications are invited for the above post, which will become vacant early in 1959.

The City Hospital is a Group hospital and caters for the pharmaceutical requirements of a number of subsidiary hospitals in the area.

Applicants should have a wide experience in hospital pharmacy, and be capable of controlling staff. A knowledge of surgical instruments is desirable. The successful applicant will work under the Group Chief Pharmacist and will be required to assume complete control in his absence.

Further particulars regarding the post can be obtained on application to the Group Chief Pharmacist. Whitley conditions of salary.

Applications, stating age, qualifications and full particulars of previous experience, together with the names of two referees, should be sent to the Group Secretary, The Sherwood Hospital, Nottingham, as soon as possible. C 8736

184 STRAND, W.C.2 **Tel: TEMple Bar 9212/3 & 6340**

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist and Pharmacist required at Bethnal Green Hospital (350 Acute beds). The department has recently been modernised and is approved for training students, N.H.S. Scale within the range £680-£870 for Senior Pharmacist and £600-£815 for Pharmacist, plus appropriate higher qualification allowance. Apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2. C 344

CITY GENERAL HOSPITAL, SHEFFIELD, 5

Senior Pharmacist

Applications are invited for the appointment of a Senior Assistant (Senior Pharmacist grade) at the above Category V Hospital. The post offers excellent opportunity to extend experience in hospital pharmaceutical practice and in developing a sterile products unit. Salary on scale £650 x £30 (6)-£830 per annum (additional £25 p.a. if holding a higher qualification). Apply giving full details of age, qualifications, experience, etc., and the names of two persons for reference to the Group Secretary, Sheffield No. 1 Hospital Management Committee, Nether Edge Hospital, Sheffield, 11. C 8744

METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8

Pharmacist

for modern department. Permanent post, salary scale £600-£815 p.a., plus higher qualification allowance. Apply with details of age, training and experience to the Hospital Secretary. C 433

MAYDAY HOSPITAL (Category IV)

Senior Pharmacist

Modern department. Good working conditions. Opportunity to secure wide experience in Hospital Pharmacy work. Mayday Hospital (General Acute 595 beds) is linked for Pharmacy control with a Geriatric Unit (410 beds) and a busy Eye Clinic. Whitley Council rates of pay. Application Form obtainable from the undersigned.

GEORGE A. PAINES,
 General Hospital, Group Secretary,
 London Road, Croydon. C 8700

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Men of integrity, outstanding personality and ability are required. Applicants should preferably have pharmaceutical or medical background, be under 35 years of age, and be willing to reside on their territory. Salary commensurate with previous experience. Car and all expenses provided. Non-contributory pension, incentive bonus and profit participation schemes.

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The position on the territory is established but has great possibilities.

Apply with full details in strict confidence to Sales Manager, United Chemists Association Limited, Ucal Works, Cheltenham.

C 8747

Appointments—Continued**PRESTON AND CHORLEY
HOSPITAL MANAGEMENT
COMMITTEE,
PRESTON ROYAL INFIRMARY****Senior Pharmacist**

Applications are invited for the post of Senior Pharmacist at the above general hospital, Whitley Council scale and conditions. Salary £650—£830 per annum (increase pending), plus £25 per annum higher qualification allowance. Additional payments for voluntary evening clinic duties.

Applications with names of two referees, to the Group Secretary, Royal Infirmary, Preston, Lancs. C 8735

**SEAMEN'S HOSPITALS
MANAGEMENT COMMITTEE****Pharmacist**

required immediately for duties under Chief Pharmacist at the Dreadnought Seamen's Hospital, Greenwich. Salary and conditions of service in accordance with Whitley Council regulations. It may be possible to provide accommodation. Applications, stating age, qualifications and experience, together with the names and addresses of two referees, to be sent to the Group Secretary, Dreadnought Seamen's Hospital, Greenwich, S.E.10. C 8745

**SOUTH-WEST DURHAM
HOSPITAL MANAGEMENT
COMMITTEE****Chief Pharmacist (Category II)**

required at Holywood Hall Hospital, Wolsingham. Salary £725—£990 per annum, plus £25 if holding higher qualification. Free transport available from Bishop Auckland, if required. N.H.S. conditions and superannuation. Application forms from the undersigned to be returned by January 12.

K. G. T. LUXFORD,
Group Secretary/Finance Officer,
C 8740

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EVANS MEDICAL have a vacancy for a representative to call on veterinary surgeons in the North of England. Previous experience of veterinary matters essential. Age 24-35, car and expense allowance provided, pension scheme in operation. Apply in confidence giving full details of career to Manager, Veterinary Information Department, Evans Medical Supplies, Ltd., Speke, Liverpool, 24. C 8760

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WINDSOR. Lady dispensing assistant required for well-known pharmacy. Help given with accommodation if necessary. Applicants must be experienced and able to work with other staff. Please give all details of age, experience, and salary required to Wood's Pharmacy, Ltd., 50 High Street, Windsor. C 1929

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PHARMACIST REQUIRED, lady or gentleman, to manage steadily expanding branch shop in Umtali, Southern Rhodesia. Delightful surroundings, reasonable cost of living, good prospects for the right person. Box C 1932

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ASSISTANT EDITOR (male or female) required for monthly technical journal in Central London. Some knowledge of pharmaceutical or medical matters desirable. Knowledge of shorthand and typing an advantage, also familiarity with proof reading, journal make-up, etc. Salary £500/£700 per year according to ability. Box C 8742.

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Personnel Officer,

PFIZER LTD.

137/139 Sandgate Road, Folkestone, Kent

C 8729

PFIZER LTD. Medical Representatives

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137/139, Sandgate Road, Folkestone

quoting Reference F.6732

C 8705

Situations Vacant—Continued

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require a
Pharmacist

to act as technical services adviser, responsible to the Medical Director, in London.

Candidates should be preferably aged 25-35, with suitable experience in hospital pharmacy and/or with an ethical pharmaceutical firm.

The commencing salary for this permanent and progressive replacement appointment will be around £1,000 p.a., and other benefits include an attractive Pension/Insurance scheme. Applications, which will be acknowledged, should be addressed, in complete confidence, to:—

Personnel Manager,
Cyanamid of Great Britain

Limited,
Bush House, Aldwych, London,
W.C.2

C 8743

EVANS MEDICAL SUPPLIES LIMITED, Ruislip, Middlesex, have vacancy for an assistant to the despatch manager. Applicant should not exceed 45 years. Salary approximately £600-£750, according to age and experience. Apply in writing to General Manager.

C 8753

MEDICAL REPRESENTATIVES

Genatosan, Limited, a member of the Fison Group, has vacancies for Medical Representatives for territories in the Home Counties, Essex, East Anglia, North-east England, Lancashire and Yorkshire. Applications are welcome from pharmacists and men with a good pharmaceutical background. Previous experience of this work is an asset but is not absolutely necessary, as a very comprehensive sales training is given. Each applicant should, however, possess a keen desire to succeed in this special type of selling.

Interested persons who reside in these areas or could move there if appointed should write for further details to the Personnel Officer, Genatosan, Limited, 12 Derby Road, Loughborough, quoting reference No. 54, with a summary of their education and career to date, also a stated preference for territory. This latter information will be treated in strict confidence. C 8750

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Write to the Advertising Manager, C. L. Bencard, Ltd., Minerva Road, Park Royal, London, N.W.10. C 8741

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Situations Vacant—Continued**PARKE, DAVIS & COMPANY,
LIMITED**

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Previous experience is unnecessary as thorough training will be given, but applicants should have a good pharmaceutical background and a keen interest in ethical pharmacy. Initial salary will be based on age and experience, subsequent adjustment will recognise initiative and ability. Company car provided. A generous pension and life assurance plan is in operation. Please write, in the first instance, giving details of age, education, qualifications and experience to: The Home Sales Manager, Parke, Davis & Company, Limited, Staines Road, Hounslow Middlesex. C 8737

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**The British Drug Houses, Ltd.
require****A MEDICAL
REPRESENTATIVE**

for the following territory:— Lancashire (excluding Liverpool and Manchester areas) and Westmorland.

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Apply giving details of qualifications, age, etc., to:

**The Personnel Manager
(HAC/JLH),
The British Drug Houses, Ltd.,
Graham Street, London, N.1**
C 8751

PAINES & BYRNE, LTD. Applications are invited from men up to 35 years of age with sound pharmaceutical or medical background, for the post of medical representative in the Counties of Sussex and Hampshire. Previous experience of medical representation though desirable is not essential as adequate training will be given. Remuneration is by salary and expenses and a staff pension scheme is in operation. Applications, which will be treated in the strictest confidence, should be addressed to the Sales Manager, Paines & Byrne, Ltd., Greenford, Middlesex. C 8757

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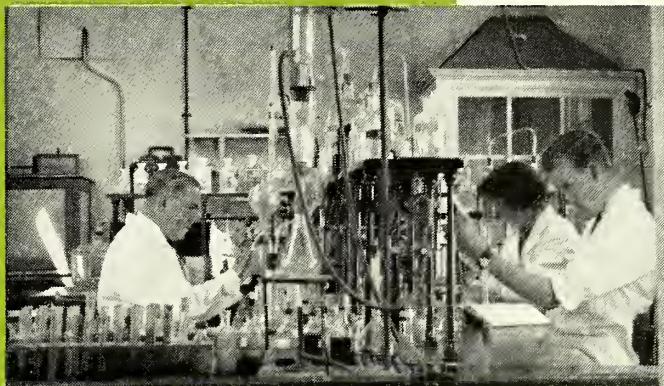
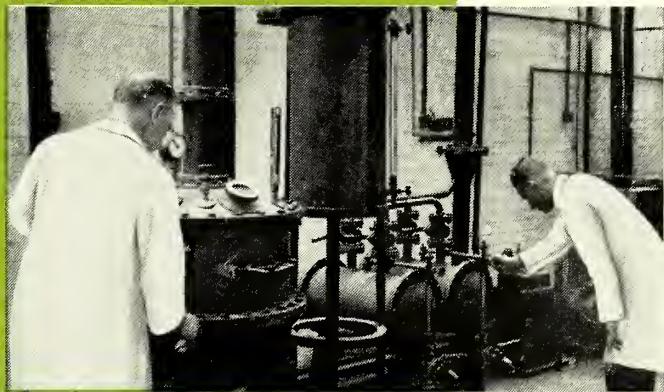
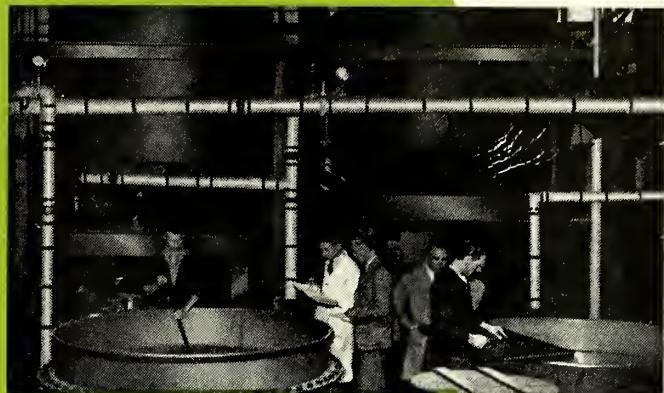
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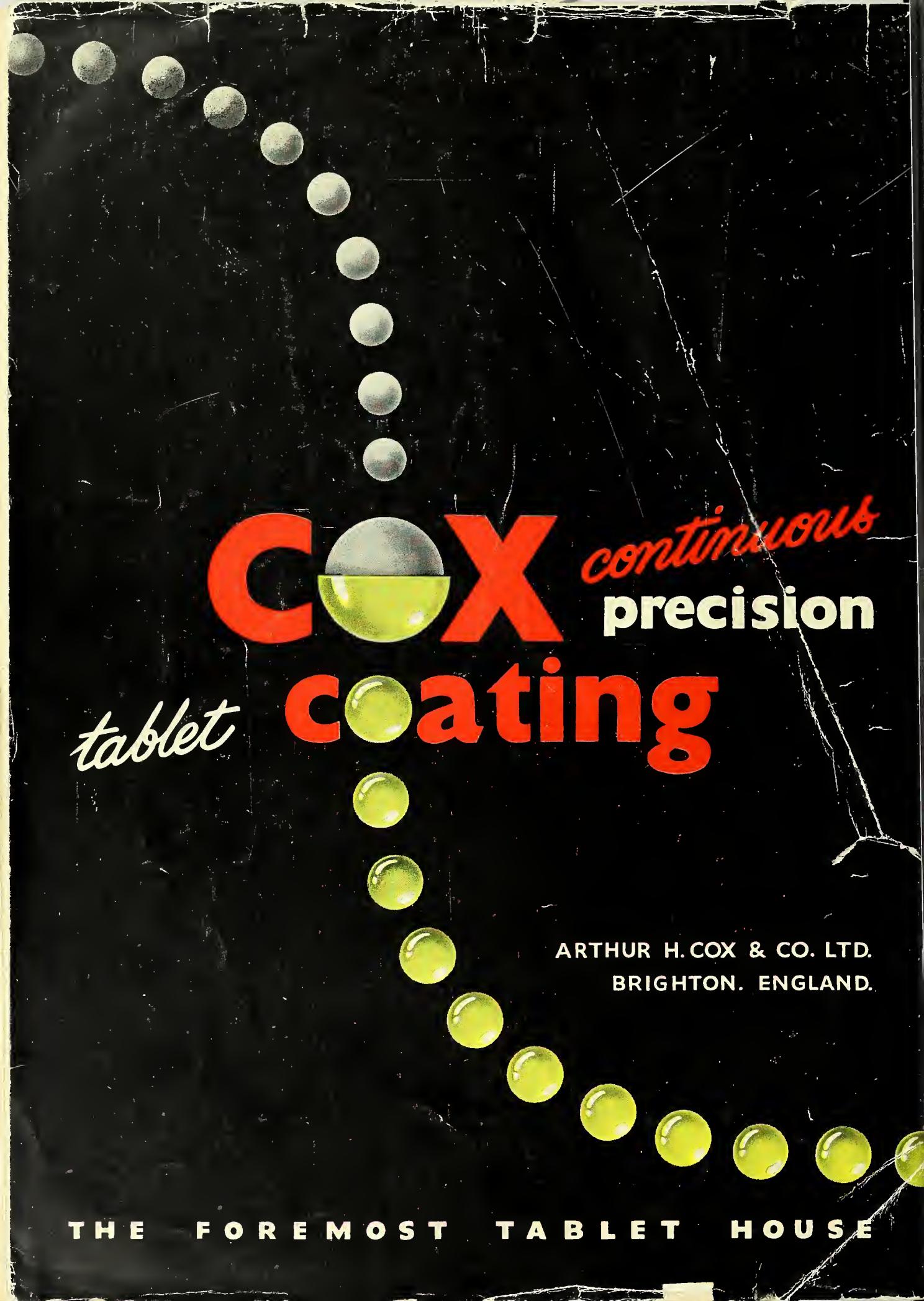
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